Service Manual

Multi-Scan Color CRT Display TX-D2151 Series Chassis No. HV4S Chassis Family No.21HV4S

MODEL NO.

TX-D2151-G TX-D2151-U TX-D2151-SW TX-D2151NM



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Panasonic

Matsushita Electric Industrial Co., Ltd.

Display Monitor Division

SAFETY PRECAUTIONS

1 CAUTION:

No modification of any circuit should be attempted. Service work should only be performed after you are thoroughly familiar with all of the following safety checks and servicing guide lines.

2 SAFETY CHECK

Care should be taken while servicing this CRT display because of the high voltage used in the deflection circuits. These voltages are exposed in such areas as the associated flyback and yoke circuits.

3 FIRE & SHOCK HAZARD

- 3-1 Insert an isolation transformer between the CRT display and AC power line before servicing the chassis.
- 3-2 In servicing pay attention to original lead dress especially in the high voltage circuit. If a short circuit is found, replace all parts which have been overheated as a result of the short circuit.
- 3-3 All the protective devices must be reinstalled per original design.
- 3-4 Soldering must be inspected for possible cold solder joints, frayed leads, damaged insulation, solder splashes or sharp solder points. Be certain to remove all foreign material.

4 LEAKAGE CURRENT COLD CHECK

- 4-1 Unplug the AC cord and connect a jumper between the two prongs on the plug.
- 4-2 Turn the CRT display power switch "on"
- 4-3 Measure the resistance value with an ohmmeter between the jumpered AC plug and each exposed metallic part on the CRT display such as the metal frame, screwheads, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be 1.8 megohm minimum.

5 LEAKAGE CURRENT HOT CHECK

- 5-1 Plug the AC cord directly into the AC outlet. Do not use an isolation transformer during this check.
- 5-2 Connect a 1500 ohm, 10 watt resistor, paralleled by a 0.15μF capacitor between each exposed metallic part and a good earth ground (as shown in Fig.1).
- 5-3 Use an AC voltmeter with 1000 ohm/volt or more sensitivity and measure the AC voltage across the combination 1500 ohm resistor and $0.15\mu F$ capacitor.
- 5-4 Move the resistor connection to each exposed metallic part and measure the voltage.
- 5-5 Reverse the polarity of the AC plug in the AC outlet and repeat the above measurement.
- 5-6 Voltage measured must not exceed 7.5 volt RMS, from any exposed metallic part to ground A leakage current tester may be used in the above hot check, in which case any current measured must not exceed 5.0 milliamp. In the case of a measurement exceeding the 5.0 milliamp value, a rework is required to eliminate the chance of a shock hazard.

Note: High voltage is present when this CRT display is operating. Always discharge the anode of the picture tube to the display chassis to prevent shock hazard.

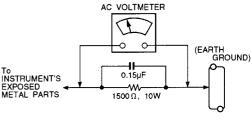


Fig. 1

6 IMPLOSION PROTECTION

All Panasonic picture tubes are equipped with an integral implosion protection system, but care should be taken to avoid damage and scratching during installation. Use only Panasonic replacement picture tubes.

7 X-RADIATION

WARNING: The only potential source of X-Radiation is the picture tube. However when the high voltage circuitry is operating properly there is no possibility of X-Radiation problem. The basic precaution which must be exercised is to keep the high voltage at the following factory-recommended level.

Note: It is important to use an accurate periodically calibrated high voltage meter.

IMPORTANT SAFETY NOTICE

There are special components used in this CRT displays which are important for safety. These parts are identified by the international symbol △ on the schematic diagram and on the replacement parts list. It is essential that these critical parts should be replaced with manufacture's specified parts to prevent X-RADIATION, shock, fire or other hazards. Do not modify the original design without written permission of the Panasonic Industrial Company or this will void the original parts and labor guarantee.

SERVICE WARNING-

TO PREVENT RISK OF ELECTRIC HAZARD, TEST BEFORE TOUCHING. Where, after operation of the fuse in the live side of the mains supply, some components of the equipment that remain under voltage might represent a hazard during servicing.

- GENERAL INFORMATION-

1. OUTLINE

TX-D2151 is 21 inch (20"V) multi-scan color CRT display with the following nice features.

OSD (on screen display) Control is newly introduced, which allows easy user adjustment.

Power saving function, which helps saving energy, is also one of the highlights of this model.

2. FEATURES

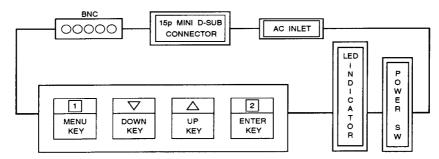
- 2-1 Power Saving
 - Built in Power Saving function based on VESA-DPMS standard.
 - Power energy shall be saved by controlling the circuit in accordance with power save signal from computer.
- 2-2 OSD function
 - OSD (on screen display)function is new and excellent man-machine interface.
 - Any one is able to set up the picture as he like through OSD menu.
- 2-3 Self Test function
 - Self Testing picture comes out by pushing 1 -key in the case of no-connection with computer or power saving operation.
 - This function shows if monitor is alive or not and can be used for self aging test.
- 2-4 Power Supply with high power factor
 - Power Supply with high power factor enables to utilize AC power efficiently and it will meet IEC555-2.

2-5 Ergonomic design

- Low emission design to meet MPR II
- ESF (Electro static field) free coating on CRT
- 2-6 Multi scan with digital technology
 - 8 bit micro computer controls the circuit operation to meet with wide range signal of f_H=30~82kHz and f_V=50~160Hz. So VGA640x350, VGA640x400, VGA640x480, SVGA800x600, 1024x768, 1152x900 and 1280x1024 mode are applicable.
- 2-7 3 Factory presets, 5 Reservation settings, 13 User Memory settings.
 - 3 standard modes are preset at the factory.
 - 5 modes are reserved at the factory.
 - 13 user memories are available to set the users own timing and display information.
- 2-8 Flat Face and fine dot pitch
 - Flat face CRT with fine dot pitch 0.25mm gives a comfortable sight of the screen.
- 2-9 Superior display performance
 - Good focus by sophisticated gun and dynamic focus circuit
 - · High brightness
 - Minimized distortion by correction circuit
 - Good convergence
 - Users enjoy full scan image for graphics

SPECIFICATION-

1. DIAGRAM



- 3.1 POWER SW, LED, 11-key (MENU), ∇-key (DOWN), △-key (UP), and 21-key (ENTER) are located on the front panel.
- 3.2 Signal connectors and AC inlet are located on the back side of the cabinet.
- 3.3 OSD menu includes the following function. CONTRAST, BRIGHTNESS, H/V SIZE, H/V POSITION, V. PIN-CUSHION, TRAPEZOID, DEGAUSS, PARALLELOGRAM, COLOR SELECT, USER COLOR, VIDEO INPUT LEVEL, VIDEO INPUT

SELECT, H/V. MOIRE REDUCTION, ROTATION, DISPLAY FREQUENCY, RECALL.

- ullet CONTRAST can be directly controlled with ∇/\triangle -key.
- VIDEO INPUT SELECT can be directly controlled by pushing 2-key.
- With sync signal, OSD menu appears by pushing
 They

With sync signal, self test menu appears by pushing 1-key.

2. MECHANICAL SPECIFICATIONS

.... refer to the attached drawing

2.1 Dimension Height: 478 mm (18.8") typ.

Width: 505 mm (19.9") typ. Depth: 510 mm (20.1") typ.

2.2 Net Weight : 28.0kg (58.5 lbs) typ.

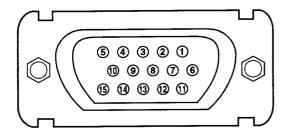
3. CONNECTORS

3.1 Signal connector: 15P Mini D-Sub X 1

BNC connector X15

3.2 AC inlet: CEE 22 typed connector

15P Mini D-Sub Pin assignment



 1 ... RED
 6 ... GROUND
 11 ... GROUND

 2 ... GREEN
 7 ... GROUND
 12 ... - (OPEN)

 3 ... BLUE
 8 ... GROUND
 13 ... H.SYNC.

 4 ... GROUND
 9 ... - (OPEN)
 14 ... V.SYNC.

 5 ... - (OPEN)
 10 ... GROUND
 15 ... - (OPEN)

4. CRT SPECIFICATIONS

Part No.	M51KYY140X	
Туре	21" (19.67" viewable) diagonal	
Dot Pitch	0.25 mm	
Phosphor	R, G, B Short Persistence	
Bulb	DARK TINT	
Face	AGRAS COAT	
Total Transmission	39.5%	

5. ELECTRICAL SPECIFICATIONS

5.1 Standard conditions ... Except special items

Display image	Green, full "H" characters with a border Ixine. (7 x 9 dots) Video siganl: 100% duty display area: 380mm x 285mm
Video signal level	0.7Vpp
Contrast, Brightness	Contrast: Max., Brightness: center point
Ambient Temperature	20 ± 5°C (68 ± 9°F)
Input Voltage	AC 120V, 60Hz
Terrestrial magnetism	Vertical field :northern hemisphere field (40 μ T) Horizontal field : no field
Viewing direction	Parallel to the CRT axis
Measurements	After an initial warming up time of more than 30 minutes.
Ambient light	200±50 IX
Display mode	MODE2 1024 x 768 (60.0kHz, 75Hz)

5.2.1 Power supply ... Commercial power source

Input voltage	AC90 - 264V
Power frequency	50/60 Hz
Input current	1.7A Max. (100V) (*1)
Inrush current (at 20°C)	40 Aop
Power consumption	150W (Typ)

(*1) Input current is reduced to about 60% of our current products by 'High Power Factor' technology.

5.2.2 Power Management for Power Saving ...

Power saving system is designed based upon VESA DPMS Standard (Version : 1.0)

1) Power consumption and recovery time.

*1 APM	SIGNALS		MONITOR POWER CONSUMP-	RECOVERY TIME	INDICATOR	
State	H. Sync	V. Sync	VIDEO	TION	TO ON STATE	
ON	*3 NOR- MAL	*3 NOR- MAL	*2 ACTIVE	*4 100%		Green
STAND- BY	No Sync or *5 <6Hz	> 40Hz	BLANK	< 30W	< 4s	Yellow
SUS- PEND	>10kHz	No Sync or *5 <20Hz	BLANK	< 30W	< 48	Yellow
OFF	No Sync or *5 <6Hz	No Sync or *5 <20Hz	BLANK	< 8W	< 20s	Yellow

- ** The transition time from ON state to each APM states is 5 seconds minimum.
- *1: APM: Advanced Power Management.
- *2: Meas. Condition of power consumption for ON state.

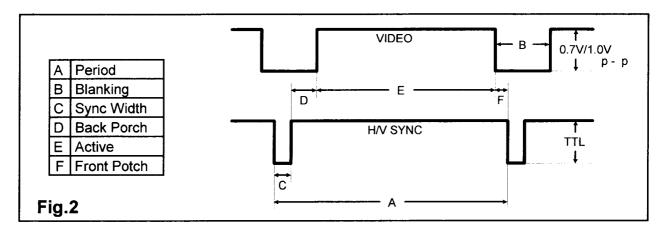
DISPLAY IMAGE : WHITE full "H" characters with a border line (7 \times 9 dots).

- *3: NORMAL: see "5.4 ACCEPTABLE TIMING".
- *4: Power Consumption is measured at AC 100-240V.
- *5: Power saving operation is done at least less than specified value in the list.

5.3 Standard timing

- Following total 8 modes are preset in the memory as standard timing at the factory.
- Refer to Fig. 2 as a definition of timing and signal level
- This SPECIFICATION is specified at STD (1024 x 768) mode unless otherwise mentioned.

TIMING CHART



FOR PRESET

	MODE - 1	MODE - 2	MODE - 3
	640 X 480 (60)	1024 X 768 (75)	1280 X 1024 (75)
DOT CLOCK	25.1745 MHz	78.7500 MHz	135.0000 MHz
fH	31.4681 KHz	60.0229 KHz	79.9763 KHz
A - PERIOD	31.778 µs (800 dots)	16.660 µs (1,312 dots)	12.504 µs (1,688 dots)
B - BLANKING TIME	6.356 µs (160 dots)	3.657 µs (288 dots)	3.022 µs (408 dots)
H C - SYNC WIDTH	3.813 µs (96 dots)	1.219 µs (96 dots)	1.067 µs (144 dots)
D - BACK PORCH	1.907 µs (48 dots)	2.235 µs (176 dots)	1.837 µs (248 dots)
E - ACTIVE TIME	25.423 µs (640 dots)	13.003 µs (1,024 dots)	9.481 µs (1,280 dots)
F - FRONT PORCH	0.636 µs (16 dots)	0.203 μs (16 dots)	0.119 µs (16 dots)
fV	59.9393 Hz	75.0286 Hz	75.0247 Hz
A - PERIOD	16.684 ms (525 lines)	13.328 ms (800 lines)	13.329 ms (1,066 lines)
B - BLANKING TIME	1.430 ms (45 lines)	0.533 ms (32 lines)	0.525 ms (42 lines)
V C-SYNC WIDTH	0.064 ms (2 lines)	0.050 ms (3 lines)	0.038 ms (3 lines)
D - BACK PORCH	1.049 ms (33 lines)	0.466 ms (28 lines)	0.475 ms (38 lines)
E - ACTIVE TIME	15.254 ms (480 lines)	12.795 ms (768 lines)	12.804 ms (1,024 lines)
F - FRONT PORCH	0.318 ms (10 lines)	0.017 ms (1 lines)	0.013 ms (1 lines)
SYNC POLARITY(H/V)	Negative / Negative	Positive / Positive	Positive / Positive

FOR RESERVATION

	MODE - 4	MODE - 5	MODE - 6
	640 X 480 (75)	800 X 600 (75)	1024 X 768 (70)
DOT CLOCK	31.5000 MHz	49.5000 MHz	75.0000 MHz
fH	37.5000 KHz	46.8750 KHz	56.4759 KHz
A - PERIOD	26.667 µs (840 dots)	21.333 µs (1,056 dots)	17.707 µs (1,328 dots)
B - BLANKING TIME	6.349 µs (200 dots)	5.172 µs (256 dots)	4.053 µs (304 dots)
H C - SYNC WIDTH	2.032 µs (64 dots)	1.616 µs (80 dots)	1.813 µs (136 dots)
D - BACK PORCH	3.810 µs (120 dots)	3.232 µs (160 dots)	1.920 µs (144 dots)
E - ACTIVE TIME	20.317 μs (640 dots)	16.162 µs (800 dots)	13.653 µs (1,024 dots)
F - FRONT PORCH	0.508 μs (16 dots)	0.323 µs (16 dots)	0.320 µs (24 dots)
fV	75.0000 Hz	75.0000 Hz	70.0694 Hz
A - PERIOD	13.333 ms (500 lines)	13.333 ms (625 lines)	14.272 ms (806 lines)
B - BLANKING TIME	0.533 ms (20 lines)	0.533 ms (25 lines)	0.673 ms (38 lines)
V C - SYNC WIDTH	0.080 ms (3 lines)	0.064 ms (3 lines)	0.106 ms (6 lines)
D - BACK PORCH	0.427 ms (16 lines)	0.448 ms (21 lines)	0.513 ms (29 lines)
E - ACTIVE TIME	12.800 ms (480 lines)	12.800 ms (600 lines)	13.599 ms (768 lines)
F - FRONT PORCH	0.027 ms (1 lines)	0.021 ms (1 lines)	0.053 ms (3 lines)
SYNC POLARITY(H/V)	Negative / Negative	Positive / Positive	Negative / Negative

FOR RESERVATION

		MODE - 7	MODE - 8
		1152 X 870 (75)	1280 X 1024 (60)
	DOT CLOCK	100.0000 MHz	109.4695 MHz
	fH	68.6813 KHz	63.7192 KHz
	A - PERIOD	14.560 µs (1,456 dots)	15.694 µs (1,718 dots)
	B - BLANKING TIME	3.040 µs (304 dots)	4.001 µs (438 dots)
Н	C - SYNC WIDTH	1.280 µs (128 dots)	1.425 µs (156 dots)
	D - BACK PORCH	1.200 µs (120 dots)	2.174 µs (238 dots)
	E - ACTIVE TIME	11.520 µs (1,152 dots)	11.693 µs (1,280 dots)
	F - FRONT PORCH	0.560 µs (56 dots)	0.402 µs (44 dots)
	f V	75.0616 Hz	59.9992 Hz
	A - PERIOD	13.322 ms (915 lines)	16.667 ms (1,062 lines)
	B - BLANKING TIME	0.655 ms (45 lines)	0.596 ms (38 lines)
V	C - SYNC WIDTH	0.044 ms (3 lines)	0.047 ms (3 lines)
	D - BACK PORCH	0.568 ms (39 lines)	0.502 ms (32 lines)
	E - ACTIVE TIME	12.667 ms (870 lines)	16.071 ms (1,024 lines)
	F - FRONT PORCH	0.044 ms (3 lines)	0.047 ms (3 lines)
	SYNC POLARITY(H/V)	Negative / Negative	Sync on Green

FO	FOR ADJUSTMENT HV4S - 1		HV4S - 2	HV4S - 4
	(HV4 - 1) (HV4H - 1)		(HV4H - 2)	(HV4 - 4) (HV4H - 4)
	DOT CLOCK	22.6000 MHz	40.2480 MHz	86.0645 MHz
	fH	29.5039 KHz	39.0000 KHz	64.5200 KHz
	A - PERIOD	33.894 µs (766 dots)	25.641 µs (1,032 dots)	15.500 µs (1,334 dots)
	B - BLANKING TIME	6.018 µs (136 dots)	5.988 µs (241 dots)	3.602 µs (310 dots)
H	C - SYNC WIDTH	4.115 µs (93 dots)	2.832 µs (114 dots)	1.185 µs (102 dots)
	D - BACK PORCH	1.283 µs (29 dots)	2.435 µs (98 dots)	1.975 µs (170 dots)
1	E - ACTIVE TIME	27.876 µs (630 dots)	19.653 µs (791 dots)	11.898 µs (1,024 dots)
	F - FRONT PORCH	0.619 µs (14 dots)	0.721 µs (29 dots)	0.442 µs (38 dots)
	fV	48.0520 Hz	77.0751 Hz	105.0814 Hz
	A - PERIOD	20.811 ms (614 lines)	12.974 ms (506 lines)	9.516 ms (614 lines)
	B - BLANKING TIME	0.915 ms (27 lines)	0.744 ms (29 lines)	0.480 ms (31 lines)
V	C - SYNC WIDTH	0.102 ms (3 lines)	0.103 ms (4 lines)	0.046 ms (3 lines)
	D - BACK PORCH	0.712 ms (21 lines)	0.513 ms (20 lines)	0.356 ms (23 lines)
	E - ACTIVE TIME	19.896 ms (587 lines)	12.231 ms (477 lines)	9.036 ms (583 lines)
	F - FRONT PORCH	0.102 ms (3 lines)	0.128 ms (5 lines)	0.077 ms (5 lines)
	SYNC POLARITY(H/V)	Negative / Negative	Negative / Negative	Negative / Negative

FOR ADJUSTMENT		HV4S - 5
		(HV4 - 5) (HV4H - 5)
	DOT CLOCK	134.9800 MHz
	fΗ	82.5061 KHz
	A - PERIOD	12.120 µs (1,636 dots)
	B - BLANKING TIME	2.904 µs (392 dots)
Н	C - SYNC WIDTH	1.096 µs (148 dots)
	D - BACK PORCH	1.526 µs (206 dots)
1	E - ACTIVE TIME	9.216 µs (1,244 dots)
	F - FRONT PORCH	0.282 µs (38 dots)
	f V	165.0122 Hz
	A - PERIOD	6.060 ms (500 lines)
	B - BLANKING TIME	0.497 ms (41 lines)
V	C - SYNC WIDTH	0.036 ms (3 lines)
	D - BACK PORCH	0.376 ms (31 lines)
	E - ACTIVE TIME	5.563 ms (459 lines)
	F - FRONT PORCH	0.085 ms (7 lines)
	SYNC POLARITY(H/V)	Negative / Negative

5.4 Acceptable timing

5.4.1 If your timing is within following specification, this CRT display can automatically function with a certain size and position.

Horizontal: Sync frequency: 30.0 ~ 82.0 kHz

Blanking Time: ≥ 3.0 μS Back Porch: ≥ 1.25 μS Front Porch: ≤ Back Porch Sync Width: ≥ 1.2 μS

Vertical: Sync frequency: 50.0 ~ 160.0 Hz

Blanking Time: ≥ 0.5 mS Back Porch: ≥ 0.5 mS Sync Width: ≥ 0.045 mS

5.4.2 • Several items like size, position and distortion can be adjusted through OSD menu, and if you want to keep it, please push the key 1 for memory, or keep the key untouched for about 20 seconds, it is automatically memorized.

NOTE: In case of RECALL, the keys is untouched for about 30 seconds, RECALL function will be cancelled.

Please notice, however, that there is the case you can not get the size and/or position you want, (for example Display Time is too short, then you can't get bigger size of the image.)

5.4.3 The CRT adopted in this CRT display is designed to minimize the moire phenomenon at suitable size for typical display modes. However, there might be a display format among many formats, in which the moire phenomenon appears on this display.

5.5 Signal level and input impedance

5.5.1 Video signal level

This CRT display is adjusted at the factory using 0.7Vp-p/1.0Vp-p video signal, black level is 0V.

5.5.2 Sync signal level

•H/V Separate, H/V Mixed: TTL level

•Sync on Green: 0.286 Vpp

5.5.3 Input impedance

Video input: 75Ω Sync input: $\geq 1 \text{ k}\Omega$

5.6 Display performance

5.6.1 Display area

1) PRESET TIMING

MODE1, 2

WIDTH : $380mm \pm 5mm$ HEIGHT : $285mm \pm 5mm$

MODE3

WIDTH: 355mm ± 5mm HEIGHT: 284mm ± 5mm 2) RESERVATION TIMING

MODE4~7

 $\begin{array}{l} \text{WIDTH} \quad : 380 \text{mm} \pm 7 \text{mm} \\ \text{HEIGHT} : 285 \text{mm} \pm 7 \text{mm} \end{array}$

MODE8

WIDTH : 355mm ± 7mm HEIGHT : 284mm ± 7mm 3) DISPLAY AREA (Full scan)

WIDTH: 402mm HEIGHT: 301mm

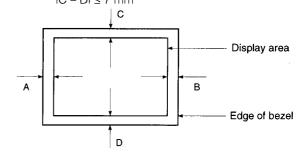
5.6.2 Centering

1) PRESET TIMING (MODE1~3)

 $|A - B| \le 4 \text{ mm}$ $|C - D| \le 4 \text{ mm}$

2) RESERVATION TIMING (MODE 4~8)

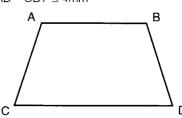
 $|A - B| \le 7 \text{ mm}$ $|C - D| \le 7 \text{ mm}$



5.6.3 Distortion

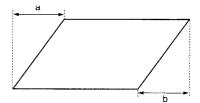
5.6.3. a) Trapezoid

IAC - BDI ≤ 3mm IAB - CDI ≤ 4mm



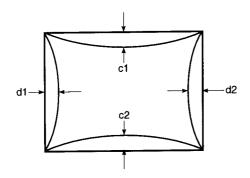
b) Parallelogram

a, b ≤ 3mm

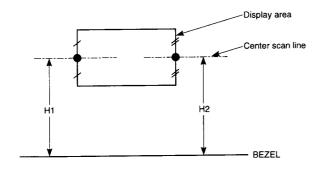


5.6.3. c Pincushion and barrel

|C1|, |C2| ≤ 3.0 mm |d1|, |d2| ≤ 3.0 mm



5.6.4 Rotation $IH1 - H2I \le 2.5 \text{ mm}$



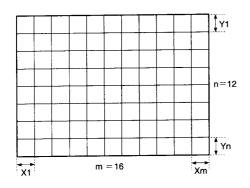
5.6.5 Linearity

Horizontal linearity

$$= \frac{X \text{ max.} - X \text{ min.}}{X \text{ max.} + X \text{ min.}} \times 100\% \le 6\%$$

Vertical linearity

$$= \frac{\text{Y max.} - \text{Y min.}}{\text{Y max.} + \text{Y min.}} \times 100\% \le 5\%$$



Conditions

Display image – crosshatch pattern Maximum and minimum values should not be adjacent to each other.

X max. is maximum value among X1~Xm X min. is minimum value among X1~Xm

Y max. is maximum value among Y1~Yn Y min. is minimum value among Y1~Yn

5.7 General performance

5.7.1 Video output

Bandwidth	135MHz (Typ)	

5.7.2 Maximum luminance

center of the 90cd/m² (min. center of the) for 100% white field at the
Luminance	: Max. (Contrast : Max.) (Brightness : Center)
	center of the 90cd/m² (min center of the Specified

5.7.3 Minimum luminance

	≤ 17 cd/m² at the center of the display			
Value	area.			
	Specified by 9300K + 27MPCD			
	Display image: White full flat field			
Conditions	Luminance: Min. (Contrast: Min.)			
	(Brightness : Center)			

5.7.4 Brightness variation

33,74 ()	65% (Min.) Variation = C/A X 100		
Display image: White full flat field Luminance: MAX (Contrast: MAX) (Brightness: Center) A; Luminance at center position C; Luminance at center position of lowest brightness			

5.7.5 Display area regulation

	Display area variation	Range of variation
Due to	within 1.0% of display	17~100 cd/m²
Luminance	area (white flat field)	
Due to	within 1.0% of display	AC : 90 - 132V
Power Supply	area	or 180 - 264V
Due to	within 1.5% of display	0 - 40°C
Temperature	area	

5.7.6 Color Point

< Conditions >

Display image: White flat field at the center of

the display area.

Luminance : Brightness Center.

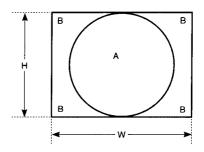
Contrast	max	min
	9300K + 27 MPCD	9300K + 27 MPCD
Value	$x = 0.281 \pm 0.020$	$x = 0.281 \pm 0.020$
	$y = 0.311 \pm 0.020$	$y = 0.311 \pm 0.020$

5.7.7 Misconvergence

Center area of display
Corner area of display

(A): 0.4 mm (Max.)

(B): 0.45 mm (Max.)



<Conditions>

Display image : Crosshatch pattern mixed

with R, G and B colors.

Convergence gauge: KLEIN CM7AG

Display image : W x H 380 x 285mm

5.7.8 Purity

Conspicuous mis-landing shall not be visible within the display area at a distance of 60cm from CRT surface.

Conditions:

Display image: White flat field

Luminance : Contrast max, Brightness

Center.

5.7.9 Jitter

Invisible at a distance of 60 cm from CRT surface. Conditions:

Display image: White flat field

Luminance : Contrast max, Brightness

Center point.

6. ENVIRONMENTS

6.1 Ambient temperature, humidity and altitude

	Operating	Storage and
		shipment
Temperature	0°~40°C	-20°~+60°C
	(32°~104°F)	(-4°~140°F)
Humidity	5~90%*	5~90%*
Altitude	3,000m (Max.)	12,000m (Max.)
	(10,000 ft)	(40,000 ft)

*Non-condensation

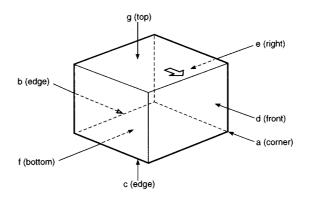
6.2 Vibration and shock

(1) Vibration

	Order	Direction		Accel	eration			
	of		of	Non-	Storage and	Frequency	Sweep	Test time
	tests	vibr	ation	operation	shipment			
	1	Vertical	Up to					30 min.
	'	vertical	down		/			
اممياء مسمال	2		Front to	2.9 m/s²		5 - 55 Hz	120 S	
Unpacked	2	11	back	(0.3 G)		3 33112	1200	15 min.
		Horizontal	Right to					13 111111.
	3		left					
		\	Up to		10m/s²			40 min.
	1	Vertical	down		(1.0 G)		Logsweep	40 111111.
Б 1			Front to		:	5 - 50 Hz	810 S	
Packed	2	l la sima ment	back		5 m/s²	3 - 30 112	0103	20 min.
	0	Horizontal	Right to		(0.5 G)			20 (11111).
	3		left		! 			

(2) Shock (Drop test)

Unpacked	20 G One time for each face (6 faces) (non-operation)					
Packed	Order of Face to drop is to face drop the floor. (see the figure)		Height	Number of drop		
	1	a, b, c, d, e, g,	35 cm	1 time		
	2	f	50 cm	for each		



7. REGULATORY STANDARDS

7.1 Safety standards, Applicable standards

UL 1950, Listing CAS 22.2 No. 950, Products Certification TüV (IEC-950)/GS (ZH1) DHHS, 21 CFR subchapter J, X-Ray Radiation

PTB, X-Ray Radiation, Approval HWC

7.2 EMC standards

Designed to meet following standards

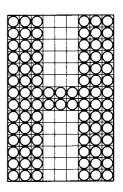
VCC I class II

FCC: FCC part 15, subpart B, class-B

VDE 0878/06.83 Vfg 243/1991 CISPR22 class B MPR-II Radiation

<EMI test pattern>

White, full "H" characters (9 x 14 dots), block (12 x 24 dots) "H" character font is as follows:



8. COLOR CRT DEFECTIVE STANDARD

8.1 Specification of screen blemishes

This instruction is applied to inspection of the screen faults and of the glass quality of the faceplate.

8.2 Test procedure

- 8.2.1 Tests are to be done under the following two conditions:
 - a) With the white raster of 34 cd/m² (10 lux) or monochrome raster (component monochromatic raster for causing the white raster to appear) in the center of 9,300K + 27 MPCD image observed at ambient light intensity of about 10 lux during operation.
 - b) A flaw is observed under the light of about 200 lux when the set is not in operation.
- 8.2.2 Viewing distance should be 60 cm (23.62") minimum. Faults not visible at this viewing distance are permitted.

8.2.3 The Following quality areas are specified:

Zone A: A rectangular area (sides X and Y)

Of which the point of intersection.

Of the diagonals coincides with the mechanical center of the screen.

	Screen size X Y			
Zone A	366mm	275mm		
	(14.4")	(10.8")		

Zone B: The remaining screen area except zone A.

8.2.4 Remarks concerning faults:

a) Unless otherwise specified, the size of a fault is the smallest value found with one of the two formulas:

$$\frac{a+b}{a}$$
 or $\frac{a}{20}$ + 2b (a = length, b = width)

b) The dot signal end clogging area defined as not being a chipping in excess of 1/2.

8.3 Permissible limit

8.3.1 Screen faults

(1) Missing phosphor dots

Type of Flaw			Tolerable	Quantity	Minimum Distance
		Zone A	Zone B	(mm)	
1 trio		1	1 2 20		
2 adjacent dots (same color)		0	1 20		
2 adjacent dots (each color)	1	1	20		
1 dot	Green phosphor dot		3	2	20
•	Yellow phosphor dot	Yellow phosphor dot		4	
Red phosphor dot			5	4	
Deformation, blemishes,	Average diameter 0.51 - 0.75		0	1	20
and other faults	(mm) 0.11 - 0.50		1	1	20

8.3.2 Glass faceplate defects

(1) Air bubbles, spot, stains and elongated air bubbles.

Average Diameter (mm)	No. of Allowable Faults			Minimum Distance (mm)	
	Zone A	Zone B	A + B		
0.76 -	0	0	0		
0.51 - 0.75	0	1	1	30	
0.26 - 0.50	2	3	5		
0.11 - 0.25	_	_		Not more than 5 dots must not exist within a diameter of 10mm.	

Scratches (Glass and Coating)

Width	Zone A + B	Total of One Product	Minimum Mutual Distance between Flaws
More than 0.16 mm	Must not exist.	_	-
0.11 - 0.15 mm	13 mm long or less	65 mm	33 mm
0.06 - 0.10 mm	26 mm or less	65 mm	17 mm
Less than 0.05 mm	No limit to length	No limit	4 mm

(2) Other defects not stated above such as chips, cracks, bruises, shear marks, clouds and polished patterns are not allowed when they substantially spoil appearance viewed from the viewing distance.

8.4 AR coating flaw standard

8.4.1 Test procedure

(1) External quality (appearance):

Place a bulb on the inspection bench and throw a white fluorescent light over it. The face glass surface light intensity shall be 1,000 lux to 1,500 lux in this case.

(2) Observing distance:

Observation shall be made at a 40 cm distance. Flaws invisible at this distance should be ignored.

(3) Zone classification:

Zone A: The inner area of a rectangle with horizontal dimension of 320 mm and vertical dimension of 240 mm with the image center taken as its center.

Zone B: The inner area on the fluorescent surface end outside Zone A.

Zone C: The area outside the fluorescent surface end.

(4) Flaw size:

The smaller of the two below shall be taken.

$$\frac{\ell+b}{2}$$
, $\frac{\ell}{20}$ + 2b (ℓ = length, b = width)

8.4.2 Flaw criteria

(1) Scratches

Width (mm)	Maximum Allowable length (mm)
< 0.05	Permitted
0.06 - 0.10	26.0
0.11 - 0.15	13.0
> 0.16	Rejected

* A scratch in excess of 0.16 mm in width is taken as a blemish if its contrast is extremely low. The standard given in (2) applies in this case.

(2) Opaque Flaws Such as Stain and Coating Peel-off

Flaws are classified according to the contrast, and judgment is formed based on the size for each contrast. The contract classification is defined as below.

• High contrast:

Foreign matters such as graphite and dirt which obstruct the light from the fluorescent surface, and coating peel-off.

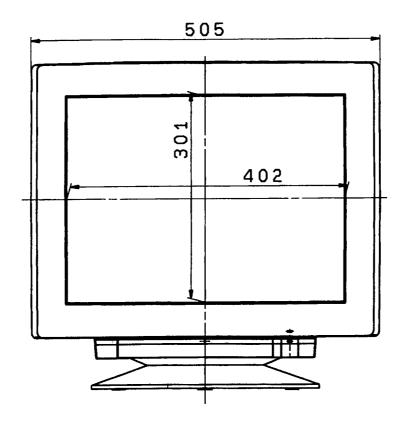
• Medium contrast:

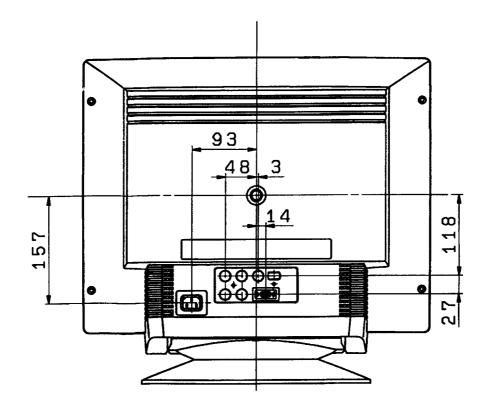
Semi-transparent foreign matters and blemishes.

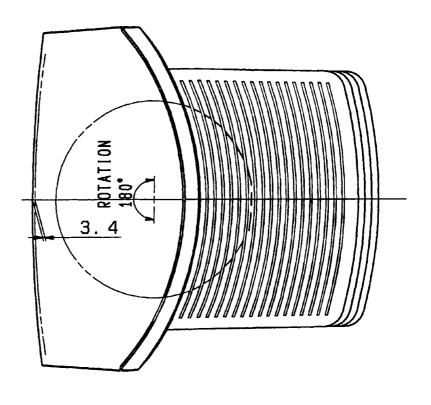
• Low contrast:

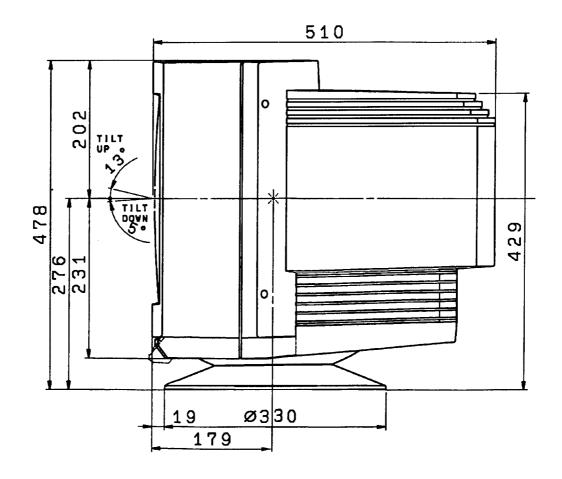
The light from the fluorescent surface little differs, but slight blemish and other flaws which cannot be visually identified.

Average	Diameter by Cont	rast (mm)	No. of Tolerable	No. of Tolerable Quantity by Zone			
High Contrast	Medium Contrast	Low Contrast	Zone A	Zone B	(mm)		
Below 0.10	Below 0.20	Below 0.50	(Judgment is not formed on the basis of quantity, but dots shall be less than five within a circle of 10 mm in diameter.		Blemishes must not be concentrate-ed.		
0.11 - 0.25	0.21 - 0.50	0.51 - 2.50	2	4	20		
0.26 - 0.50	0.51 - 1.00	1.26 - 2.50	1	2	40		
0.51 - 0.75	1.01 - 1.50	2.51 - 3.75	. 0	1	80		







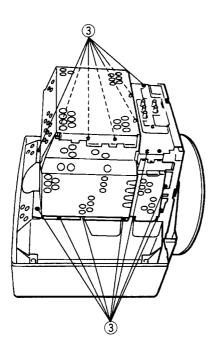


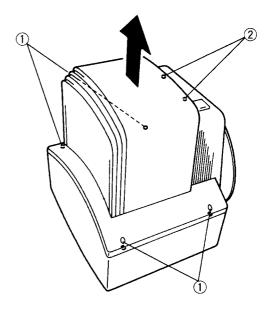
DISASSEMBLY INSTRUCTIONS

1. Rear cover removal

Note: Spread a mat underneath to avoid damaging the CRT surface.

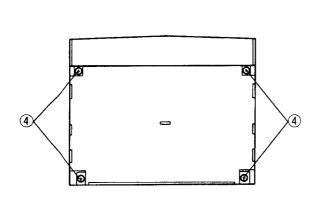
- Remove for large screws ① and two small screws
 from the rear cover.
- 2) Remove the cover.
- 3) Remove 14 screws 3 from the shield case.
- 4) Remove the shield case.

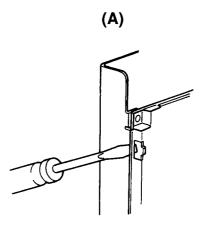




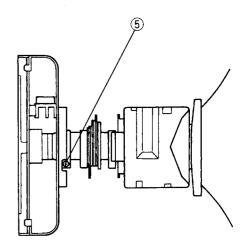
2. Video PCB removal

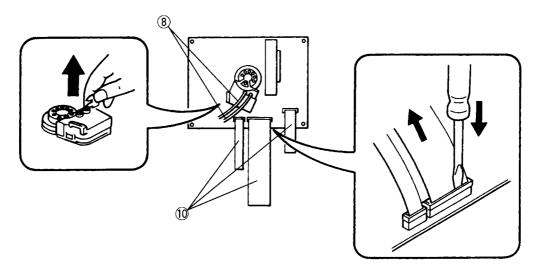
- 1) Remove four screws 4 securing the shield cover.
- 2) Remove the shield cover (A).

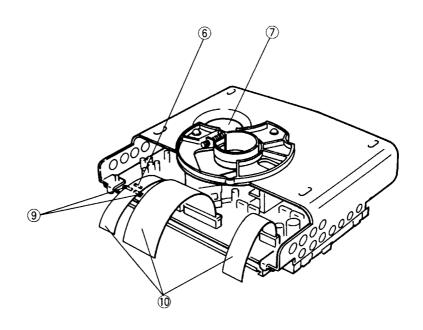




- 3) Loosen the screw ⑤ securing the CRT neck and the shield case.
- 4) Remove the PCB block from the CRT.
- 5) Remove the N10B connector ⑥.
- 6) Remove the N382B connector 7.
- 7) Remove two focus leads (8) after pulling up the focus lead securing lever.
- 8) Remove two ground connectors (9) (N105 and N106) connected to the PCB.
- 9) Remove three flexible PCBs 10.
- 10) Remove the PCB from the shield case.

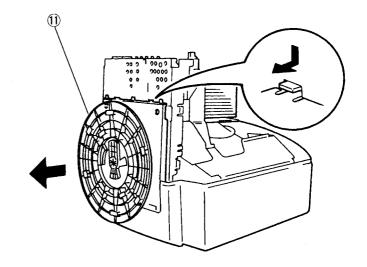


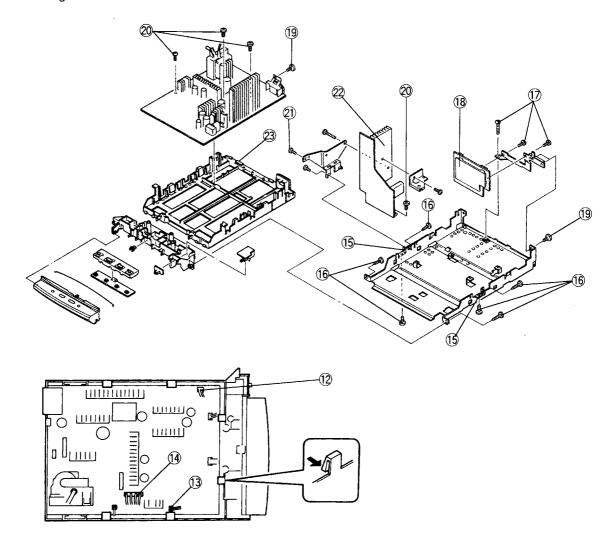




3. Main PCB Removal

- 1) Remove the pedestal 10.
- 2) Remove the connector ② (N802) of the degauss coil.
- 3) Remove the connector (3) (N101) of the tilt coil.
- 4) Remove the DY connector (4).
- 5) Remove the anode cap.
- 6) Remove two ground connectors 15.
- 7) Remove six screws (6) securing the bottom fitting metal.
- 8) Remove the fitting metal and the PCB from the cabinet.
- 9) Remove three screws ① securing the fitting metal.
- 10) Remove the signal connector PCB 18.
- 11) Remove two screws (9) securing the AC inlet connector.
- 12) Remove four screws ② securing the fitting metal and PCB.
- 13) Remove one screw ② securing the fitting metal and heat sink.
- 14) Remove the SUB-PCB 2.
- 15) Remove the holder ② from the fitting metal and PCB with the figure referenced.





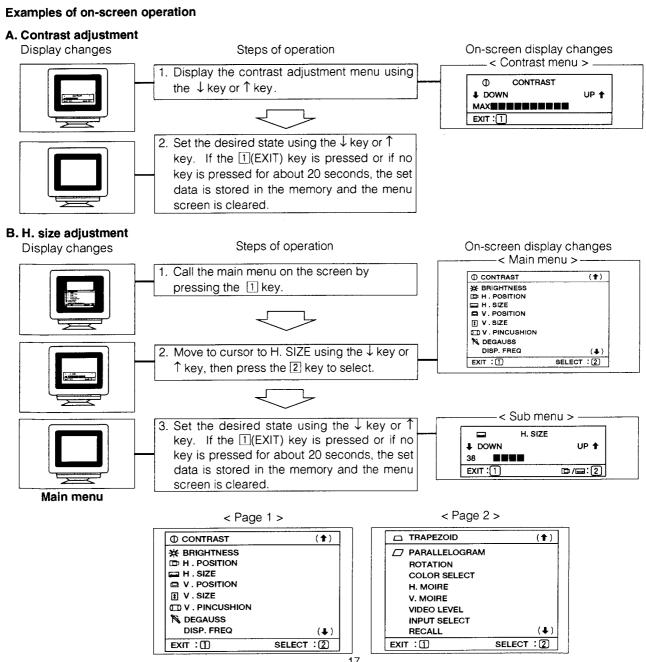
CONTROL LOCATION -**Basic operation of parts** Control panel 2 n Names of control 2 key Pilot LED Down key Up key Power switch 1 key **Functions** (1)To display contrast menu; to Lights when power switch is pressed; goes out when it is pressed again. adjust contrast. Operation / Display of the Power (2)To adjust level of selected item. Saving Function. Selected or switch change To switch on and To display main menu: quit menu. Store

change data in the memory.

For a detailed description of the functions of the 11 key, down key, up key, and 2 key, refer to the next section onward.

data.

off the display unit.



CAUTION FOR ADJUSTMENT AND REPAIR

- 1. Degaussing is inevitably required at purity adjustment or convergence adjustment.
- 2. If you check or adjust electrical specification or function, more than 20 minutes burn-in is required.
- 3. Reforming of the lead wire is required after your repair work.
- 4. Prior to starting work, be sure to check that the input signal is at the specified timing and that the polarity is as specified in all modes.
- 5. Brightness control: brightness tends to decrease about 5 cd/m² at the white window and about 1 cm/m² in the white raster after mounting the rear cover in position. This should be taken into consideration.
- Brightness stabilizing time: It takes about 20 to 50 seconds for the brightness to stabilize after turning the power off for 5 seconds (AC). Therefore, care should be taken to this.
- 7. Aging should be made in white raster of $30 \sim 50$ cd/m2 and raster size, 402×301 mm before adjusting the ITC.
- 8. Set the CONTRAST to MAX and BRIGHTNESS to CENTER using the O.S.D.

CAUTION FOR SERVICING-

When servicing or replacing the CRT, high voltage sometimes remains on the anode. So, completely discharge high voltage before servicing or replacing the CRT so as to prevent a shock to the serviceperson.

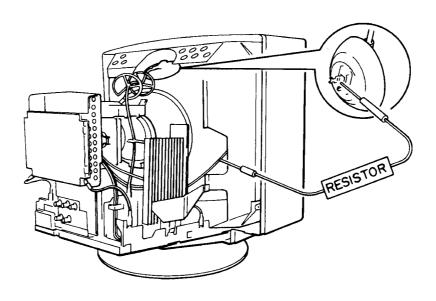
CRT Anode Discharge

- When you check the CRT anode or replace the CRT, discharge the CRT anode to the external conductive coating (aquadag) of CRT, especially when checked right after power turn-off.
- 2. Ground one end of a jumper wire which has a resistor (30kV < resisting pressure 100M Ω) and connect the other point to the CRT anode.

Note: Grounding must be done first.

This model has a section that does not share a common ground with the power supply section. The different sections are referred to as the HOT section and the COLD section in the precautions below.

- Do not touch the HOT section and the COLD section at the same time. You may be hit by an electric shock.
- 2. Do not short the HOT section to the COLD section. This could blow the fuse or damage parts.
- 3. Never measure the HOT section and the COLD section at the same time when using tools such as oscilloscopes or multimeters.
- 4. Always unplug the unit before beginning any operation such as removing the chassis.



ADJUSTMENT AND CHECK PROCEDURE

INTRODUCTION

 This monitor is controlled by a microcomputer. With the exception of purity/convergence/focus all is digitally adjusted.

Therefore a computer, the dedicated control software, the dedicated interface, a 9~12V power supply, and a signal generator are required servicing.

TOOL REQUIRED

Computer

Control software is compatible with IBM PC. Therefore, it is suggested to use a computer which has compatibility with IBM PC.

Control Software

The HV4 chassis can only use "TX-D2151 adjustment program disk". No other program can access the EEPROM on the monitor. For further information please contact to our monitor sales office.

Interface

Just as in the case of the control software, this interface is a dedicated interface. There are no substitution for this interface. For further information please contact to our monitor sales office.

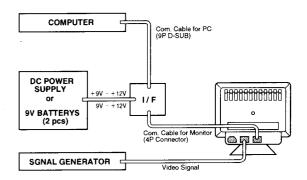
Power Supply

A DC $9\sim12V$ ($+9\sim12V/-9\sim12V$) power supply is required for operating the interface.

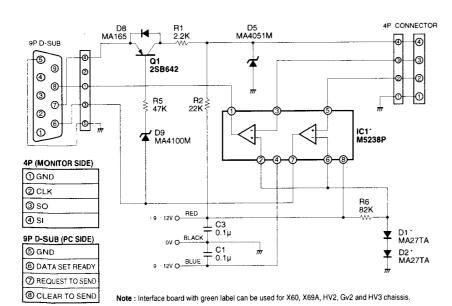
• Signal Generator

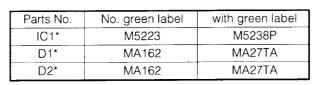
It is necessary for you to use a signal generator which operates on fH 82 KHz, fv 160 Hz, and fc 135 MHz bands.

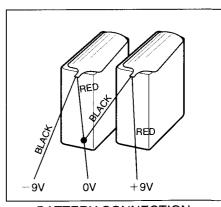
INTERFACE CONNECTION



INTERFACE SCHEMATIC DIAGRAM







BATTERY CONNECTION

OTHER TOOLS

• Oscilloscope (dual trace)

• Scope probe – Attenuation: 100:1

Attenuation: 10:1

• Digital Voltmeter - Range: 0 to 1000V DC

Accuracy: 0.1%

• TV color Analyzer II - that reads luminance and chro-

maticity X and Y coordinates.

Digital High Voltmeter

• AC power supply - Output voltage: 0 to 300V

• Degaussing coil

• Convergence meter

Scale

• Double-faced scale

• Microscope - Scale factor: 50

• White racquer (Paint)

STANDARD CONDITION OF ADJUSTMENT PROCEDURE

• Signal timing: Standard timing 1024 x 768

(See page 5)

Display pattern : White, full "H" character
 Signal level : V/H: TTL level video: 700mV

Input source : AC 120V, 60 Hz
 Ambient temperature : Room temperature
 Warm-up time : More than 30 minutes

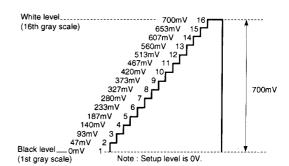
Brightness control : CenterContrast control : Max.

• Magnetic field : Vertical: 40 μT

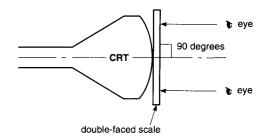
Horizontal: 0 µT

• Signal cable: Attached

Video input signal from PC.



- Use a Helmholtz device to adjust an unit with no horizontal magnetic field and a vertical field of 40 μT . Inspect the unit under the same conditions.
- The ambient illuminance must be 200 lux.
- Use an external degaussing coil any time the DEGAUSS switch does not remove color shading.
- To check the image width, height, linearity and distortion, proceed as below.



Measure level with respect to tube axis.

ADJUSTMENT SOFTWARE-

1. Software operating procedure

- 1) Power on the computer.
- 2) Connect the Communication cable for monitor adjustment.
- 3) Insert the adjustment disk into the drive.
- 4) At the A:> prompt type "VSR", then press [ENTER].
- 5) Refer to the adjustment procedures.

2. Adjustment Program

Main Menu of Adjustment Program

Description of Function of Each Menu

1) Load Data from File

Transfer the contents of the data file of the disk to the monitor and update the contents of EEPROM forcedly. When the data of the EEPROM is damaged for some reason or other, a return to the initial state can be made easily by using the function from the original data.

2) Adjust H. OSC Freerun

To guarantee the operation in the follow-up possible horizontal frequencies, the reference oscillation frequency can be automatically set by making the microcomputer reference it.

3) Adjust VSR Setting

To guarantee the operation in the follow-up possible horizontal frequencies, the reference voltage to be referenced by the microcomputer and the distortion offset reference data should be set.

4) Adjust Other Setting

This is used to control the brightness and color.

5) Adjust Factory Preset

Makes the control at the time of preset mode, and the microcomputer is referenced when operating the partial data in modes other than the preset mode.

6) Clear User Preset

Clear the data written in the user preset domain. Nothing is written in this domain when shipping the product from factory.

7) Save Data to File

Transfer the data of the EEPROM of the monitor to a data file in a desired file name.

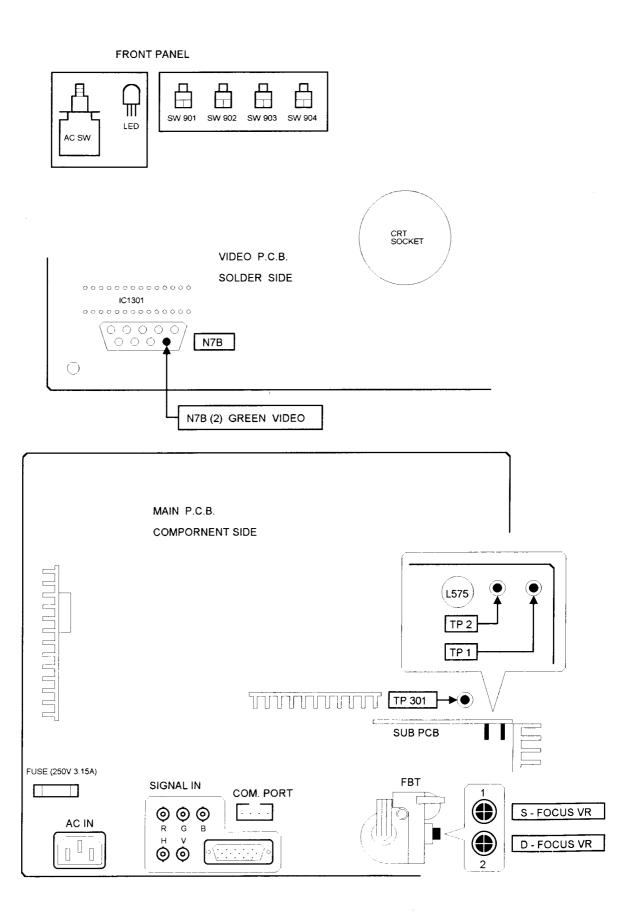
8) Information Service

Displays the H/V frequencies of the signal fed to the monitor, and the operation status on the monitor of the PC side.

9) Show Version and Error

- Return the microcomputer version to the PC.
- (2) If there is an error in monitor operation, the contents of that error are returned to the PC.

SERVICE ADJUSTMENT CONTROL LOCATION



- 23 -

REQUIRED ADJUSTMENT PROCEDURE AFTER A PARTS IS REPLACED (✓ IS REQUIRED)

		REPLACED PARTS															
	ADJUSTMENT ITEM	MAIN P.C.B.	VIDEO P.C.B.	CRT DY	IC1301 IC1302 IC1303 Q1075 Q1175 Q1275 IC1385	Q1001 Q1004 Q1005 Q1101 Q1104 Q1105 Q1201 Q1204 Q1205	IC330 IC351 Q295 Q330	IC470 IC490 Q484 Q494 Q495	IC501 IC503	IC461 IC476 Q470 Q472	IC301 IC302 Q301 Q302 Q304 Q305 Q306 Q307 Q319	IC550 IC580 IC581 Q549 Q550 Q717 Q719	Q850 Q851 Q852 Q853 Q854 Q853	IC581 Q581 Q582 Q583 Q584 Q585	IC635 IC660 Q644 Q644 Q672 Q673 Q674	Q675 Q676 Q680 Q690	IC902
(A)	DATA SETTING *	✓															✓
(B)	H. FREE RUN	✓							✓								✓
(C)	H. DRIVE DUTY	✓										✓	✓		✓	✓	✓
(D)	H. DRIVE +B	✓		4								✓	✓		✓	✓	✓
(DA)	EHT	✓		✓								✓	✓		✓	✓	✓
(E)	DAF	✓									✓						✓
(F)	FOCUS	✓		✓							✓						✓
(G)	H. CENTER	✓		✓										✓	✓	✓	✓
(H)	H.V. SIZE / POSI V.PCC (1)	✓		✓				✓	✓	✓		✓	*		✓	✓	✓
(1)	V.PCC	٧ <u> </u>		✓								✓	✓				✓
(J)	V. LIN (C)	✓		✓				✓		✓							✓
(K)	H.V. SIZE / POSI V.PCC (2)	✓		✓				✓	✓	✓		✓	✓		✓	✓	✓
(L)	H.V. SIZE / POSI V.PCC (3)	✓		✓				✓	✓	✓		✓	✓		✓	✓	✓
(M)	BRIGHTNESS, COLOR	✓	✓	✓	✓	✓	✓								✓	✓	✓
(N)	ABL	✓	✓	✓	✓	✓	✓								✓	✓	✓
(P)	INPUT 1.0V SETTING	✓	✓	✓	✓	✓	✓										✓
(Q)	H. SIZE LIMITER SETTING	✓		✓					✓			✓	✓		✓	✓	✓
(R)	FINAL SETTING	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	√	✓	✓	✓	✓
(T)	DATA SAVING																
	PURITY & CONVERGENCE			✓													
	SCREEN CHECK	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

^{* (}A) DATA SETTING: Do not load standard data except when main P.C.B. and IC902(EEPROM) are replaced.

- ADJUSTMENT PROCEDURE —

1. Description of Adjustment Method

	Item Program Menu	 Test Meter ▼ Test Point Pattern	JOB CODE	Input Signal	Operation	Adjusting Value
	DATA SETTING 1) Load data from FILE		A1 A2 A3	OFF	Turn the power on, but do not connect the signal cable. Press July by setting the cell to the menu at left. A message FILE -> EEPROM FILE NAME (q or Q escape) []: is displayed. So. key in the DACDATA.DAT (when	
А			A4		using the standard data) and press	
	Do not loa	d standard data	exce	pt whe	n main P.C.B. and IC902 (EEPROM) are re	placed.
	H. FREE RUN		B1		Press by setting the cell to the menu shown at left.	
			B2		Set the cell to the adjusting mode INTP[0] and press	
		☐ Crosshatch	ВЗ	HV4S-1	Check to be sure that the input signal to the monitor set is [fH 29.5kHz] and [fV 48.0Hz] and press —].	
В	2) Adjust H. OSC freerun		B4		When the screen image has stabilized, press E and return the image to the screen image of B2. <the adjusting="" and="" as="" b2,="" b3,="" b4="" except="" for="" mode="" same="" signal.="" the=""></the>	↓ (Automatic adjustment)
			B5	HV4S-2	Adjusting mode <u>INTP[1]</u> : Input signal [fH 39.0kHz] [fV 77.1Hz]	
			В6	HV4S-4	Adjusting mode INTP[2]: Input signal (fH 64.5kHz) [fV 105.0Hz]	
			В7	HV4S-5	Adjusting mode [NTP[3]: Input signal [fH 82.5kHz] [fV 165.0Hz]	
			BE		Press E to return to the main menu.	
H	H. DRIVE DUTY	♦ Oscilloscope	C1		Set the cell to the menu at left and press 🖵 .	
		▼ TP2 - GND □ Crosshatch	C2		Set the cell to the adjusting mode INTP[0] and press	t2
		Oscilloscope Range	C3	HV4S-1	Check to be sure that the input signal to the monitor set is at given at left [fH 29.5kHz] and [fV 48.0Hz] and press	
		HV4-1 10 μ s/div HV4-2 5 μ s/div	C4		Set the cell to H. DRIVE DUTY and press . Then move the cell to the data side.	
С	3) Adjust VSR setting	HV4-4 5 μ s/div HV4-5 2 μ s/div	C5		Make the adjustment to match the value shown at the right using ← and → keys. Make registration using ← after adjustment and press € to return to the menu of C2. <the adjusting<="" after="" and="" as="" c2,="" c3="" c4,="" c5="" same="" setting="" td="" the=""><td>t1/t2 x 100 = 53% ±2.5%</td></the>	t1/t2 x 100 = 53% ±2.5%
			0.5		mode/signal and adjustment.>	
			C6	HV4S-2	Adjusting mode I <u>NTP[1]</u> : Input signal [fH 39.0kHz] [fV 77.0Hz]	51% ±2.5%
			C7	HV4S-4	Adjusting mode <u>INTP[2]</u> : Input signal [fH 64.5kHz] [fV 105.0Hz]	47%±2.5%
			C8	HV4S-5	Adjusting mode [NTP[3]: Input signal [fH 82.5kHz] [fV 165.0Hz]	45% ±2.5%
			CE		Press E to return to the main menu.	

Note 1: Check to be sure that the program disc name is TX-D2151 before making necessary adjustment.

Note 2: Unless otherwise specified, the monitor state is as given at right.

Note 3: The underlined places indicate the adjustment items on the screen of the PC.

	Item Program Menu		JOB CODE	Input Signal	Operation	Adjusting Value
	H. DRIVE+B	Digital voltmeter▼ TP1-GND	D1 D2		Set the cell to the menu at left and press . Set the cell to the adjusting mode INTP[0] and press	
:			D3	HV4S-1	Check that the input signal to the monitor is [fH 29.5Hz] and [fV 48.0Hz] and press —]. Set the cell to HDRIVE +B and press —]. Then, move the cell to the data side.	
D	3) Adjust VSR setting		D5		Make the adjustment to match the value shown at the right using ← and → keys. Register with ← after adjustment and return to the menu of D2 using €. <the adjusting="" and="" as="" d2,="" d3,="" d4,="" d5="" except="" for="" mode="" same="" signal="" the="" value.=""></the>	20V ±0.15V
			D6	HV4S-2	Adjusting mode INTP[1]: Input signal [fH 39.0kHz] [fV 77.1Hz]	18V ±0.15V
			D7	HV4S-4	Adjusting mode INTP[2]: Input signal [fH 64.5kHz] [fV 105.0Hz]	15V ±0.15V
			D8	HV4S-5	Adjusting mode INTP[3]: Input signal [fH 82.5kHz] [fV 165.0Hz] Press [E] to return to the main menu.	12V ±0.15V
			DE	HODE O	_	
	EHT ADJUST	→ High voltageprobe and digitalvoltmeter☐ RGB OFF (Sync	E1 E2 E3	MODE-2	Turn the power switch of the monitor OFF. Connect high voltage probe to anode cap and GND, then Turn the power switch of the monitor ON. Set the cell to the menu at left and press	
E	4) Adjust OTHER setting	signal only)	E4 E5 E6 EE		Check to be sure that the input signal is as shown at left. Move the cell to EHT and press	27KV±0.3KV
	DAF 8) Special ADJUST	 ◇ Oscilloscope ◇ 100:1 probe ◇ 10:1 probe ▼ TP301 - GND (100:1) 	F1 F2 F3 F4	HV4S-5	Set the cell to the menu at left and press . Select the 2:DAF ADJUST using . Check to be sure that the signal is as shown at left. Adjust the time axis of the oscilloscope so that the DAF	Waveform of E4 (H. DAF)
	o) Special Absoci	▼ N7B② (G. IN) - GND	F5		waveform becomes as shown at right. Move the cell to <u>H. DAF GAIN</u> , <u>H. DAF POSI</u> and adjust as	
F		☐ White flat field pattern	F6	:	shown at right using ← and → . (444Vp-p ±10V) Adjust the time axis of the oscilloscope so that the DAF waveform becomes as shown at right.	Waveform of E6 (V. DAF)
		Oscilloscope Range	F7		Move the cell to the <u>V. DAF GAIN, V.DAF POSI</u> and adjust as shown at right using ← and → . (180Vp-p±10V)	DAC
		H-DAF 2μs/div V-DAF 5μs/div	FE		Return to the menu of F2 using (E) and return to the main menu using (E) and (LVIDEO
	FOCUS	☐ Crosshatch	G1	MODE-2	Turn the D FOCUS VR of the FBT to make the focus of the corner section optimum.	
G			G2		Turn the S FOCUS VR of the FBT to make the focus of the center section optimum. (Repeat G1 and G2 to make it optimum.)	
		☐ Character pattern	G3		Switch to the character pattern and check to be sure that the focus is at its best. (Note: This adjustment should be done by turning the VR using a screwdriver.)	

	Item Program Menu		JOB CODE	Input Signal	Operation	Adjusting Value
	H. CENTER		H1 H2		Set the cell to the menu at left and press . Then set the Brightness to the max. Set the cell to the adjusting mode INTP[0] and press	A A=8 B
		RGB OFF (Sync signal only)	H3	HV4S-1	Check to be sure that the input signal to the monitor set is as shown at left [fH 29.5kHz] and [fV 48.0Hz] and press	Backrastor
	3) Adjust VSR setting		H4		Set the cell to the <u>H. CENTER</u> and press, and move the cell to the data side.	Set the RASTER to the center with
н			H5		Make adjustment as shown at right using ← and →. Register using □ after adjustment, press E , and return to the menu of H2. <the adjusting="" and="" as="" except="" for="" h2,="" h3,="" h4,="" h5="" mode="" same="" signal.="" the=""></the>	respect to the bezel.
			H6	HV4S-2	Adjusting mode <u>INTP[1]:</u> Input signal [fH 39.0kHz] [fV 77.1Hz]	
			H7	HV4S-4	Adjusting mode INTP[2]: Input signal [fH 64.5kHz] [fV 105.0Hz]	
			H8	HV4S-5	Adjusting mode INTP[3]: Input signal [fH 82.5kHz] [fV 165.0Hz]	
			HE		Return to the main menu by pressing E.	
	HV. SIZE/HV. POSI/ V. PCC (1)		1	NODE 0	Set the cell to the menu at left and press . Check to be sure that the input signal is as shown at left	
		☐ Crosshatch	12	MODE-2	and press	H. SIZE
1	5) Adjust Factory preset		13		I3 and I4.> Adjust the <u>H. SIZE, V. SIZE, H. POSI</u> and <u>V. POSI</u> to the left using ← and →.	380mm ±5mm V. SIZE 285mm ±5mm
			14		Set the <u>V. PCC</u> , <u>V. PCC TRAPEZOID</u> and <u>V. PCC PARAL-LEL</u> to the best using ← and →.	HV. POSI CENTER
			ΙE		Press E and N to return to the main menu.	
	V. PCC	Crosshatch	J1	MODE-2	Check to be sure that the input signal is as shown at left. Set the cell to the menu at left and press <set ,="" and="" cell="" following="" items="" make.<="" press,="" td="" the="" to=""><td></td></set>	
ا	3 Adjust OTHER		J2		necessary adjustment.> Set the <u>V. PCC CORNER</u> , <u>V. PCC CENTER</u> and <u>V. PCC</u>	
	setting		JE		BALANCE to the best using ← and →. Press Ē to return to the main menu.	
-	V. LIN (C)		K1		Set the cell to the menu at left and press the	
		Crosshatch	K2 K3	MODE-2	Select the 4: V.LIN(C) from the menu. Check to be sure that the input signal is as show at left.	
К	8) Special ADJUST		K4 KE		Adjust the V. LIN to the best using ← and →. Return to the menu of K2 using ← and return to the main menu using Ē.	
						1
			3			
L						

	Item Program Menu		JOB CODE	Input Signal	Operation	Adjusting Value
	HV. SIZE, HV. POSI,		L1		Set the cell to the menu at left and press 🗐 .	
	V. PCC (2)		L2		Set the cell to the adjusting mode INTP[0] and press	
		☐ Crosshatch	L3	HV4S-1	Check to be sure that the input signal to the monitor set is as shown at left [fH 29.5kHz] and [fV 48.0Hz] and press	
			L4		Set the cell to the following items, press , and make necessary adjustment using the , and , and make ① H. SIZE, ② V. SIZE, ③ H. POSI, ④ V. POSI, and ⑤ V. PCC	H. SIZE 380mm ±5mm V. SIZE 285mm ±5mm
£	3) Adjust VSR setting		L5		After adjusting ① - ⑤, press E and return to the menu of L2. <same adjusting="" and="" as="" except="" for="" l2,="" l3,="" l4,="" l5="" mode="" signal.="" the=""></same>	HV. POSI CENTER V. PCC best point
			L6	HV4S-2	Adjusting mode INTP[1]: Input signal [fH 39.0kHz] [fV 77.1Hz]	
			L7	HV4S-4	Adjusting mode <u>INTP[2]</u> : Input signal [fH 64.5kHz] [fV 105.0Hz]	
			L8	HV4S-5	Adjusting mode <u>INTP[3]</u> : Input signal [fH 82.5kHz] [fV 165.0Hz]	
			LE		Press E to return to the main menu.	
	HV. SIZE, HV. POSI,		M1		Set the cell to the menu at left and press .	
	V. PCC (3)	☐ Crosshatch	M2	MODE-1	Check to be sure that the input signal to the monitor set is as shown at left [fH 31.5kHz] and [fV 60Hz] and press	
	5) Adjust Factory		M3		Set the cell to the following items, press , and make adjustment as shown at right using , and , and , . ① H.SIZE, ② V.SIZE, ③ H.POSI, ④ V.POSI, ⑤ V.PCC. ⑥ PARALLEL and ⑦ IRAPEZOID Note: H. POSI and V. SIZE should use both modes, MSB and LSB.	MODE 1, 2 H. SIZE 380mm±5mm V. SIZE 285mm±5mm
	preset		M4		After adjusting ① - ⑦, go to M5 using E and Y. <same and="" as="" below.="" except="" for="" input="" m2,="" m3,="" m4="" signal="" the=""></same>	HV. POSI CENTER V. PCC best point
			M5	MODE-2	Input signal [fH 60.0kHz] [fV 75.01Hz]	MODE
			M6		After adjustment, go to M7 using E and Y.	MODE 3 H. SIZE
			M7	MODE-3	Input signal [fH 79.9kHz] [fV 75.0Hz]	355mm ±5mm
М			ME		Return to the main menu after adjustment using $\[\mathbb{E} \]$ and $\[\mathbb{N} \]$.	V. SIZE 284mm ±5mm
		·				
L						

	Item Program Menu	 Test Meter▼ Test Point Pattern	JOB CODE	Input Signal	Operation	Adjusting Value
	BRIGHTNESS, COLOR 4) Adjust OTHER		N1 N2		Set the CONTRAST···MAX, BRIGHTNESS···CENTER and COLOR···9300K using the OSD. Set the cell to the menu at left and press —].	
İ	setting	☐ Sync signal only	N3	MODE-2	 Feed the signal at left/pattern to the monitor.	
		(RGB OFF)	N4		Set the cell to the R. LOW LIGHT 9300K then press, and move the cell to data side.	
			N5		Set the data value to "35" using \leftarrow and \rightarrow .	
			N6		Do the same as N4 and M5 for G. LOW LIGHT 9300K.	
			N7		Do the same as N4 and M5 for B. LOW LIGHT 9300K.	
			8/1		Move the cell to G2 9300K then press ☐ , set the data value to "65".	
			N9		Press → until raster appear with any one of three colors.	
			N10		Move to LOW LIGHT 9300K of above color then set the value to "FF".	
			N11		Do the same for N9, N10 for another colors.	
 _N			N12		Move the cell to G2 9300K of the rest of three colors and adjust until raster appear slightly.	
IN			N13		Adjust LOW LIGHT 9300K of above two colors (N9 ~N11) to the same as the N12.	
			N14		Adjust G2 9300K to the point where raster disappear.	
		☐ 16 gradation grayscale	N15		Switch over to the pattern at left and check to be sure that the 2nd gradation vaguely glitters.	
		☐ White window pattern (60 x 60mm)	N16		Switch over to the pattern at left and bring the sensor of the analyzer to the center of the screen image and set the CONTRASTMAX.	
		◇ TV COLOR ANALYZER II	N17		Move the cell to the following items and make adjustment as shown at right using ← and →. R. SUBCONT 9300K, G. SUBCONT 9300K and B. SUBCONT 9300K	Y=110 cd/m ² ±5 x=0.281 ±0.020 y=0.311 ±0.020
			N18		Make adjustment to as shown at right using <u>CONTRAST</u> (Program menu on the PC)	Y=3 cd/m ² x=0.281 ±0.020
			N19		Move the cell to the following item. Then make adjust as shown at right. R. LOW LIGHT 9300K, G. LOW LIGHT 9300K and B. LOW LIGHT 9300K	y=0.311 ±0.020
			N20		Change the following data value to the same as 9300K using G2 6550K, R. SUBCONT 6550K, G. SUBCONT 6550K and B. SUBCONT 6550K R. LOW LIGHT 6550K, G. LOW LIGHT 6550K and B. LOW LIGHT 6550K	
l			N21		Press E to return to the main menu.	
	8) Special ADJUST		N22		Set the cell (Special ADJUST) to the menu at left and press	
			N23		Select 3: Color ADJUST from the menu.	
			N24		Automatically convert for the 6550K data when press	
			NE		Press to return to M22 menu then press to return to main menu.	
	ABL	☐ WHITE FLAT FIELD	01		Set the CONTRAST···MAX, BRIGHTNESS···MAX, COLOR··· 9300K using the OSD of the monitor.	
		PATTERN	02		Set the cell to the menu at left and press —.	
	4) Adjust OTUED		03	MODE-2	Feed the signal at left and bring the sensor of the analyzer to the screen image center.	
0	4) Adjust OTHER setting		04		Move the cell to ABL 9300K and adjust as shown at right.	Y=100 cd/m ² ±10
	9		05		Change the ABL 6550K data values the same as ABL 9300K using ← and → .	- · · · · - · · ·
			OE		Press E to return to the main menu.	

	ltem Program Menu		JOB CODE	Input Signal	Operation	Adjusting Value
Р	INPUT 1.0V SETTING 8) Special ADJUST	☐ White flat field pattern	P1 P2 P3 P4 P5 PE	MODE-2	Set the cell to the menu at left and press . Select 1: VIDEO 1.0V ADJUST from the menu. Set the CONTRAST MAX and VIDEO INPUT 1.0V using the OSD of the monitor set. Press against the message of "hit return key". Press as other message is displayed. Press to return to the menu of P2 and return to the main menu using the .	
Q	H. SIZE LIMITER 8) Special ADJUST		Q1 Q2 Q3 Q4 QE	MODE-2	Set the cell to the menu item at the left and press	
R	FINAL SETTING 8) Special ADJUST		R1 R2 R3	MODE-2	Set the cell to the menu at left and press	
S	DATA SAVING 7) Save data to FILE		\$1 \$2		Set the cell to the menu at left and press . Key in the file name after []:. Use SERIAL No. as a file name. (EXAMPLE : FF4111732 = "4111732. DAT")	

2. Purity adjustment

The CRT is an ITC assembly, however, here is the explanation for readjustment just in case.

If color shading is apparent, make the following adjustment.

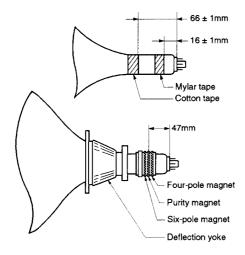
2.1.

- (1) Verify that no unusual magnetic fields are near the Display unit (magnetic screwdrivers, table magnets, etc.). If possible, use a wooden workbench for this procedure.
- (2) Degauss the magnetism of chassis and CRT with external degaussing coil.
- (3) Adjust the purity magnet until each of the red, green and blue channels is free of color shading.

Make the following adjustment if color shading cannot be corrected by the above, or if the CRT or deflection yoke has been replaced.

2.2.

(1) Keep the convergence yoke and deflection yoke in the positions shown below.

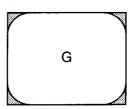


CY tightening torque: 8 \(^2\) kgf·cm

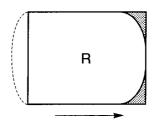
DY tightening torque: 18 \(^2\) kgf·cm

- (2) Make sure that this adjustment is done later than 30 minutes after power on.
- (3) Degauss the magnetism of chassis and CRT with an external degaussing coil.
- (4) Verify that static convergence is roughly matched. If it is misaligned, adjust static convergence of Red color and Blue color with Four-pole magnet.

- (5) Remove the wedge from the deflection yoke, and pull the deflection yoke fully to the front.
- (6) Display green color solely with the signal generator. Adjust the purity magnet so that the center of the screen displays a pure green disk. Slide the deflection yoke rearward until the four corners shaded and check its area's uniformity.



- (7) After the adjustment of step 5, readjust the static convergence if some gap was found. Static convergence alignment for this step is to be performed with Four-pole magnet and Six-pole magnet.
- (8) Display red disk. Adjust the purity magnets so as that red disk is as the center of the screen simultaneously. If red is shifted, move its position in the opposite direction.



- (9) Display Green again.
 Slide the deflection yoke rearward until the screen appears green on the whole, and fasten it there.
- (10) Confirm purity in each direction by rotating the set to direction of East, West, South, and North after degauss by external degaussing coil.
- (11)If magnetism remains even after the adjustment, use the compensation magnet to obtain purity.

The final confirmation method for purity

In the natural magnetic field, rotate the monitor in the direction of East, West, South and North.

Earth's magnetic field may cause magnetism on the monitor. Confirm that the automatic degaussing circuit built in the monitor can erase the amount of magnetism which was introduced with above rotation.

3. Convergence adjustment

The CRT is an ITC assembly, however, here is the explanation for readjustment just in case.

- (1) Make sure that this adjustment is done later than 30 minutes after power on. Check general ability coarse adjustment and purity adjustment finished.
- (2) Degauss the magnetism of chassis and CRT with degaussing coil. (CRT board also)
- (3) Apply mixed crosshatch signals of red and blue from the signal generator. Nudge the deflection yoke to equal its inclination up and down, right and left with a temporary wedge between CRT and the top of the yoke.
- (4) Match the red and blue images at the center of the screen by rotating the Four-pole magnet (See STEP-1 in figure for examples).
- (5) Apply mixed crosshatch signal of red, blue and green from the signal generator.
- (6) Match the red, green and blue images at the center of the screen by rotating the Six-pole magnet. (See STEP-2 in figure for examples)
- (7) Loosen the deflection yoke fastening screw and gently nudge the yoke up and down to achieve the best overall convergence on the edges of the screen (See STEP-3 in figure for examples). Insert wedge at the top of the deflection yoke so
 - Insert wedge at the top of the deflection yoke so that the convergence will not deviate due to an unsteady deflection yoke.
- (8) Gently nudge the yoke from side to side to achieve the best overall convergence on the edges of the screen (See STEP-4 in figure for examples). Insert wedges at the left side and right side of the deflection yoke so that the convergence will not deviate due to an unsteady deflection yoke. (Do not apply silicon adhesive to the wedges to prevent them from slipping out).
- (9) Check that the image is horizontal.

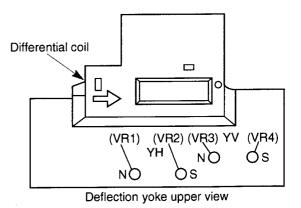
 If needed, rotate the deflection yoke.
- (10)Recheck the purity adjustment. If purity was adversely affected repeat the purity adjustment, then recheck convergence when finished.
- (11)Retighten the deflection yoke fastening screw. Do not overtighten the screw, as this can damage the CRT.
 - Tightening torque: 18 ±2 kgf·cm
- (12) Align the horizontal line convergence at the center of the screen with the Differential coil (See STEP-5in figure for examples).
- (13) Align the horizontal line convergence at the bottom and of the screen with the Differential resistor VR4. (See STEP-6 in figure for examples).
- (14) Align the horizontal line convergence at the top of the screen with the Differential resistor VR3 (See STEP-7 in figure for examples).

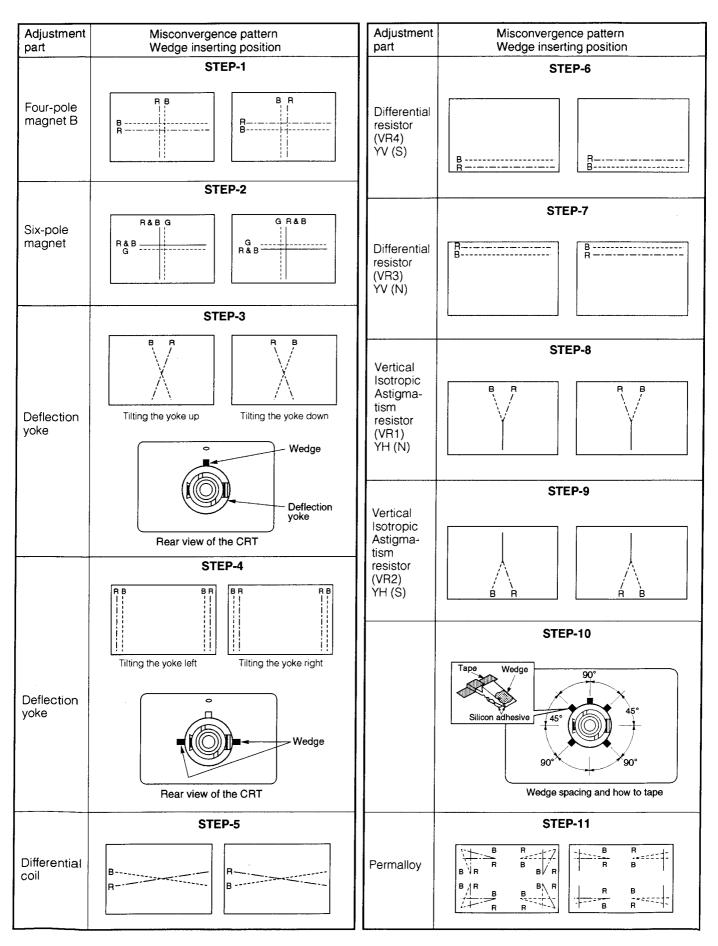
- (15) Align the center vertical line convergence at the top of the screen with the Vertical Isotropic Astigmatism resistor VR1 (See STEP-8 in figure for examples).
- (16) Align the center vertical line convergence at the bottom of the screen with the Vertical Isotropic Astigmatism resistor VR2 (See STEP-9 in figure for examples).
- (17) Recheck convergence at the center of the screen. If needed, realign with the Four-pole magnet and the Six-pole magnet.
- (18) Insert wedges as shown in STEP-10 of figure (at the top, bottom, and right side of the deflection yoke). Secure them with silicon adhesive and polyester tape. Remove any temporary wedges while keeping convergence aligned.
- (19) If the convergence on the fringe areas in still not acceptable, place one or more Permalloys around the funnel to achieve the best effect. Then press these Permalloys onto the funnel. Verify convergence around all edges of the screen. (See SYTEP-11 in figure for examples).

NOTE

In the above step, do not place the Permalloys closer than 20 mm from the HV anode cap. Do not tape them over any paper labels or secure them with silicon adhesive.

(20) After completion of adjustment, apply locking paint to the movable portions of the deflection and convergence yokes to secure them.





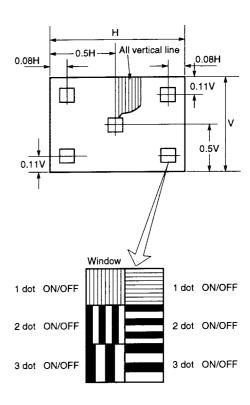
CHECK ITEM

These items are intended for a recheck after adjustment and for a check of the following function operations:

- 1. Resolution check
- 2. Brightness variation check
- 3. Gradation check
- 4. Brightness check
- 5. Deflection linearity check
- 6. Distortion check
- 7. Image stability check
- 8. Blinking image check
- 9. Circuit operation check
- 10. Specific function check
- 11. Power save function check

1. Resolution Check

(1) Apply resolution check pattern.



- (2) Check with the normal signal and inverted signal. Check to be sure that display color between dots is uniform and that there are no color difference and spotty display color.
- (3) Check the entire image quality including resolution.

2. Brightness Variation Check

- (1) Cause the white full dot pattern to be displayed with the Mode-2 signal.
- (2) Set the contrast to a maximum. Set the brightness to the center.
- (3) Make sure that a brightness difference between the center and periphery is <65% with the horizontal magnetic field in the condition of $\pm30~\mu\text{T}.$

3. Gradation Check

- (1) Cause the 16 grayscale to be displayed with the Mode-2 signal. (White gradation waves.)
- (2) Set the contrast to a maximum and the brightness to the center.
- (3) At this time, the 1st gradation (black level) cannot be seen and the 2nd gradation must be barely lit.
- (4) With the brightness set to the center, vary the contrast from the maximum point and the gradation tracking must be good at that time.

Note: If tint (particularly the gray, which is a middle color) is different, make adjustment of the white balance once again.

(5) With the contrast set to a maximum, vary the brightness from the maximum point to the minimum point and check to be sure that the brightness of the low gradation portion changes.

Note: Check both the color select 9300K and 6550K.

4. Brightness Check

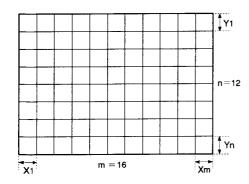
- (1) Cause the white full-flat field pattern to be displayed with the Mode- 2 signal.
- (2) Make sure that the brightness value is < 17 cd/m² when the contrast is set to a minimum and the brightness to the center.

5. Deflection Linearity Check

(1) Display the green only crosshatch pattern.

Horizontal linearity =
$$\frac{X \text{ max.} - X \text{ min.}}{X \text{ max.} + Y \text{min.}} \times 100\%$$

Vertical linearity =
$$\frac{\text{Ymax.} - \text{Ymin.}}{\text{Ymax.} + \text{Ymin.}} \times 100\%$$



(2) To confirm the horizontal deflection linearity, proceed in the next input signal modes:

Mode-1

Mode-2 6%

Mode-3

To confirm the vertical deflection linearity, proceed in the following input signal modes:

6. Distortion Check

(1) Apply the signal of the following mode and supply the green crosshatch pattern.

Mode-1

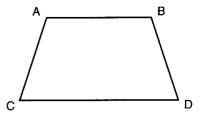
Mode-2

Mode-3

- (2) Make sure that each value comes within the value indicated above.
- Distortion
- Trapezoid

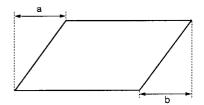
$$|AC - BD| \le 3mm$$

 $|AB - CD| \le 4mm$



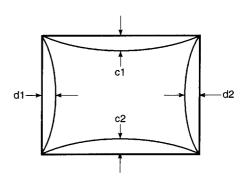
• Parallelogram

a, b ≤ 3mm



• Pincushion and barrel

|C1|, $|C2| \le 3.0 \text{ mm}$ |d1|, $|d2| \le 3.0 \text{ mm}$

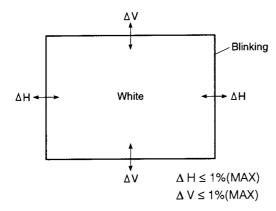


7. Image Stability Check

- (1) Check to be sure that the size variations are < 2 mm for horizontal size and < 1.5 mm for vertical size when the white full dot pattern of Mode-1 is displayed and the AC voltage is changed to 90 ~ 264 V.
- (2) Make sure that the size variations are < 2 mm for horizontal size and < 1.5 mm for vertical size when contrast is changed to a minimum from maximum at the AC voltage of 120 V/240V.

8. Blinking Image Check

(1) Apply blinking pattern signal. (100%)



(2) Check the image stability at Mode-1. Check if image changes due to blinking meets the standards below using the microscope.

9. Circuit Operation Check

- (1) Check the protection operation at fH not covered in the specifications.
- (2) Apply fH = 28 KHz and 84KHz signal and check to be sure that sync flows.

10. Specific Function Check

- (1) Create the crosshatch pattern using the Mode-2 signal of the preset timing.
- (2) Vary the variations of the vertical size and the deviation of the horizontal size and check to be sure that the horizontal size and horizontal position variations meet the values given below.

Vertical size → Full scan

Vertical position → up and down

5 mm or more

Horizontal size → Full scan

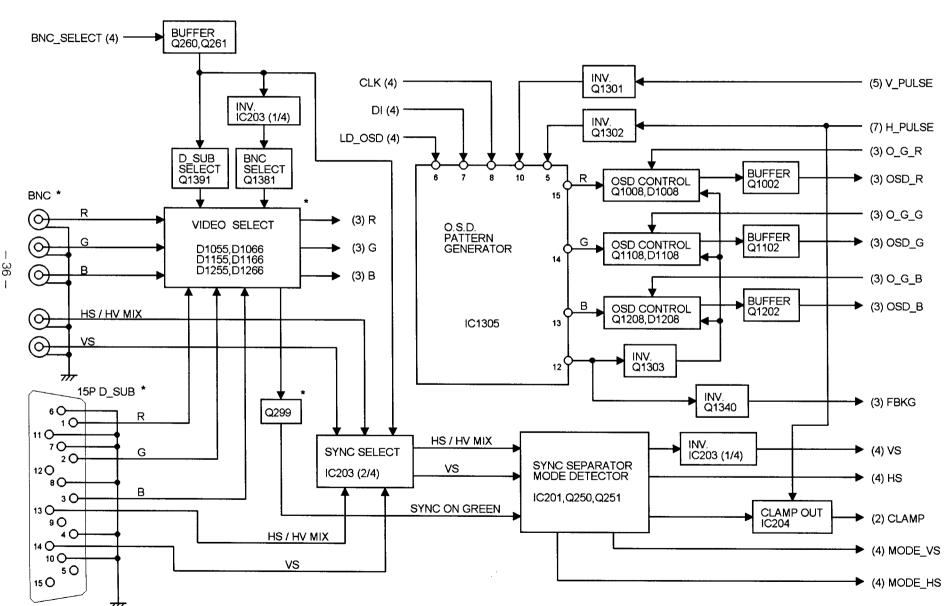
Horizontal position → left 40 mm or more
Horizontal position → right 40 mm or more

11. Power Save Function Check

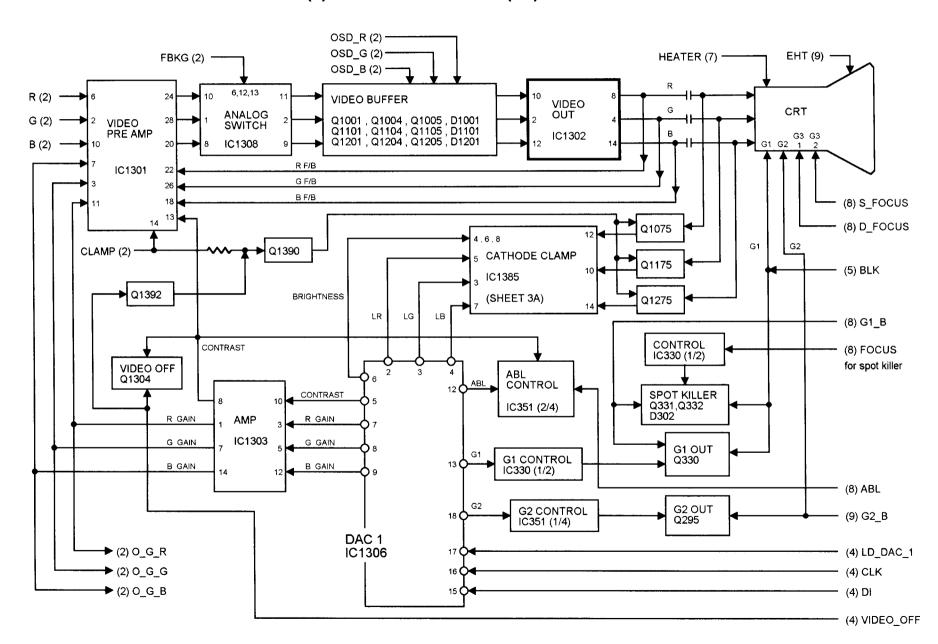
The power consumption must meet the specifications when the horizontal/vertical sync signals are changed as shown below.

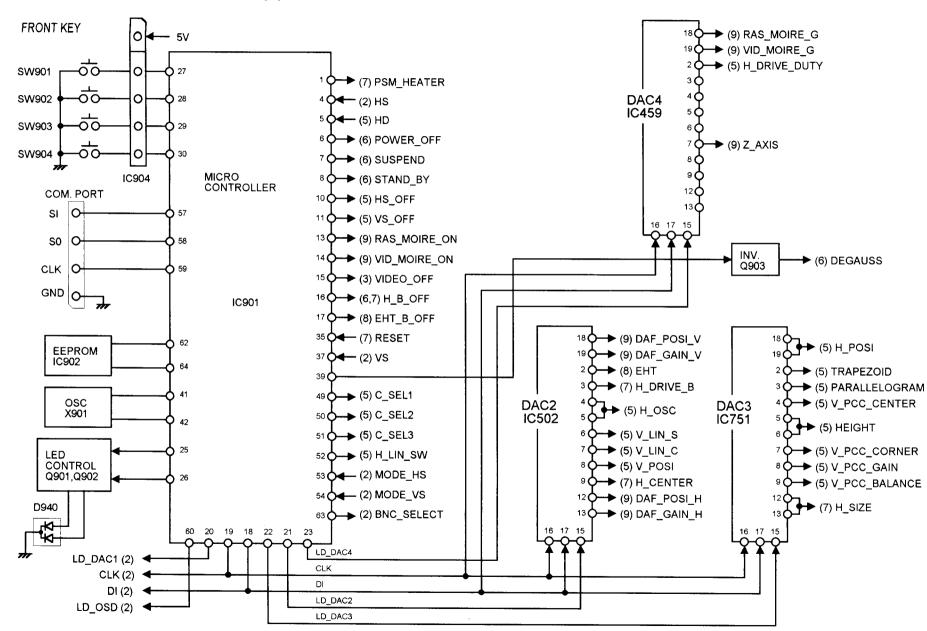
H. SYNC	OFF	ON	OFF
V. SYNC	ON	OFF	OFF
SPEC	< 30W	< 30W	< 8W

SHEET (1) SIGNAL SELECT * / SHEET (2) SYNC SEPARATE

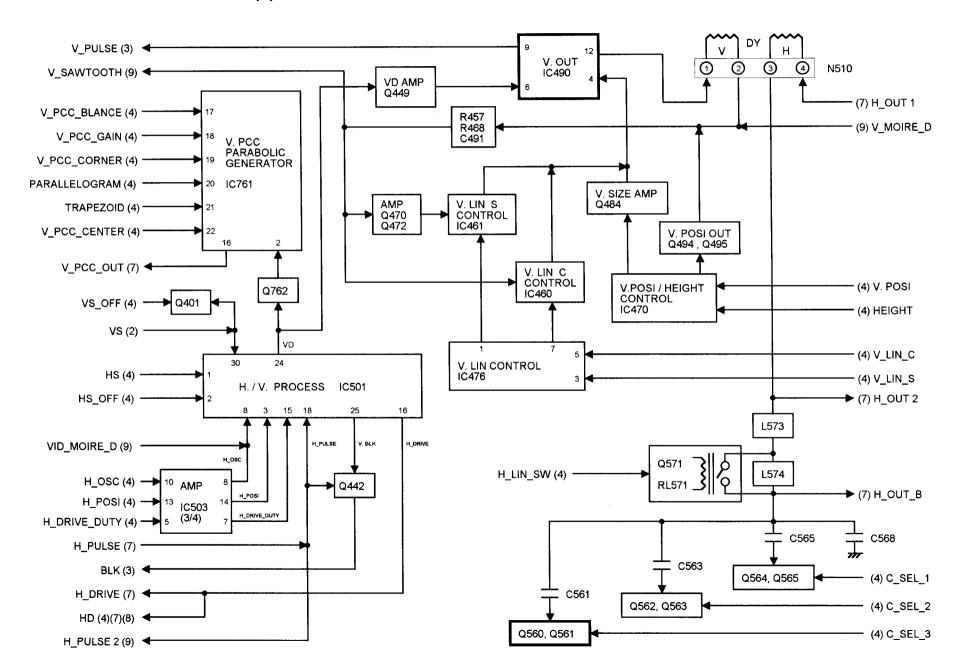


SHEET (3) VIDEO OUT / SHEET (3A) CATHODE CLAMP

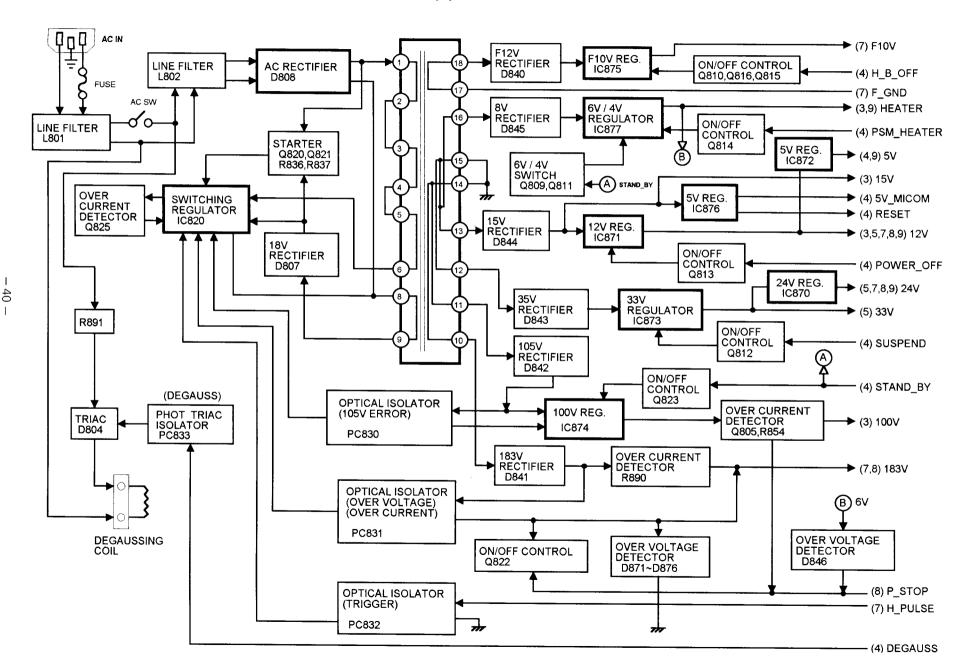




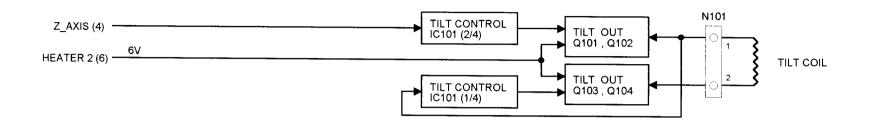
-38 -

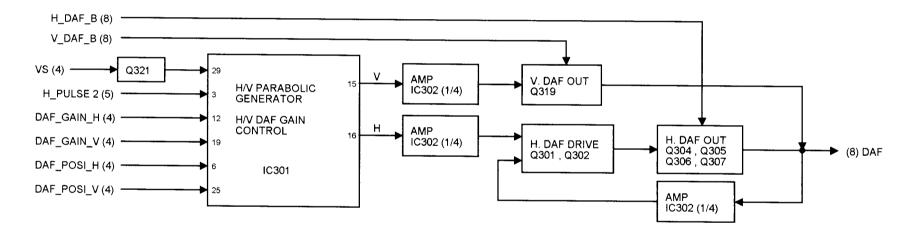


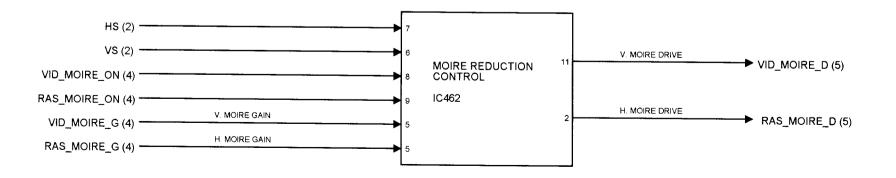
SHEET (6) POWER SUPPLY



SHETT (9) TILT CONTROL / DAF OUT / MOIRE REDUCTION

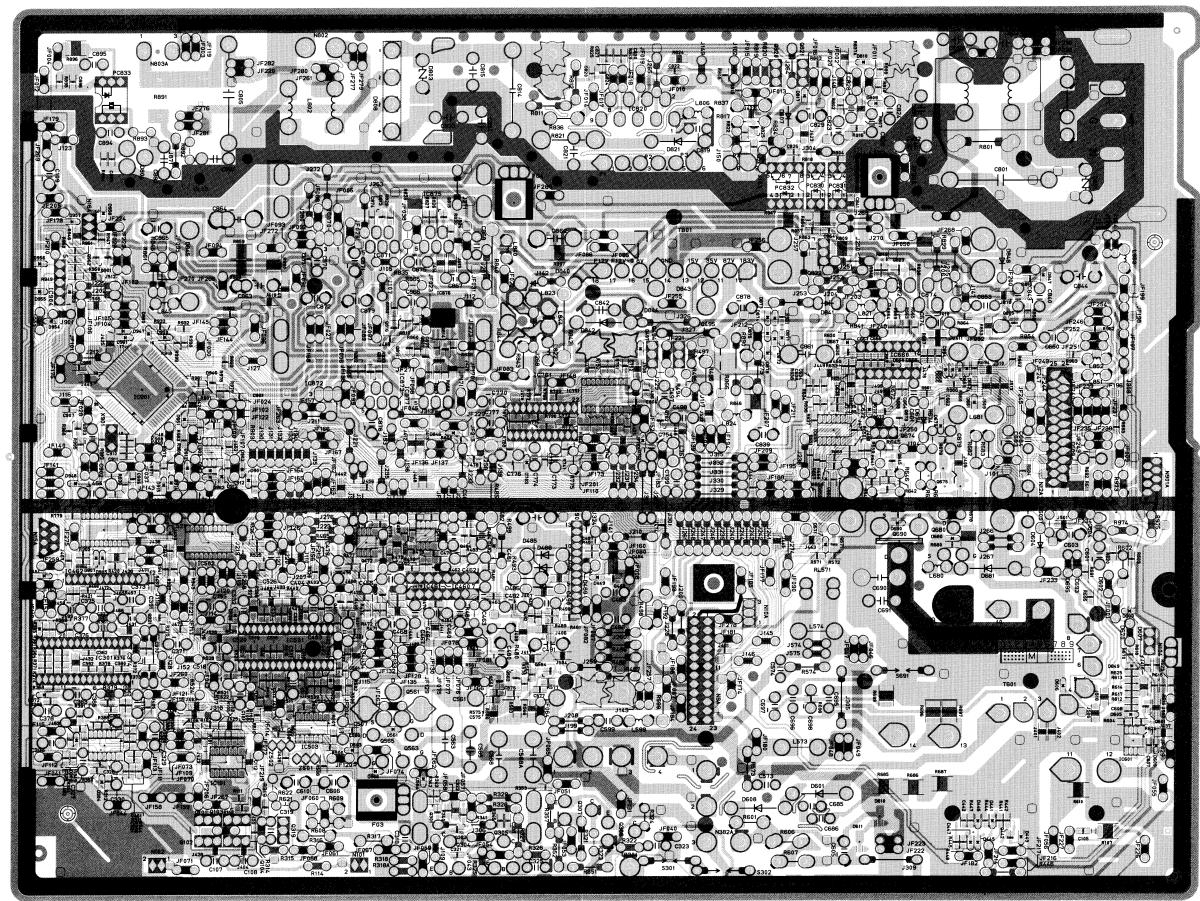




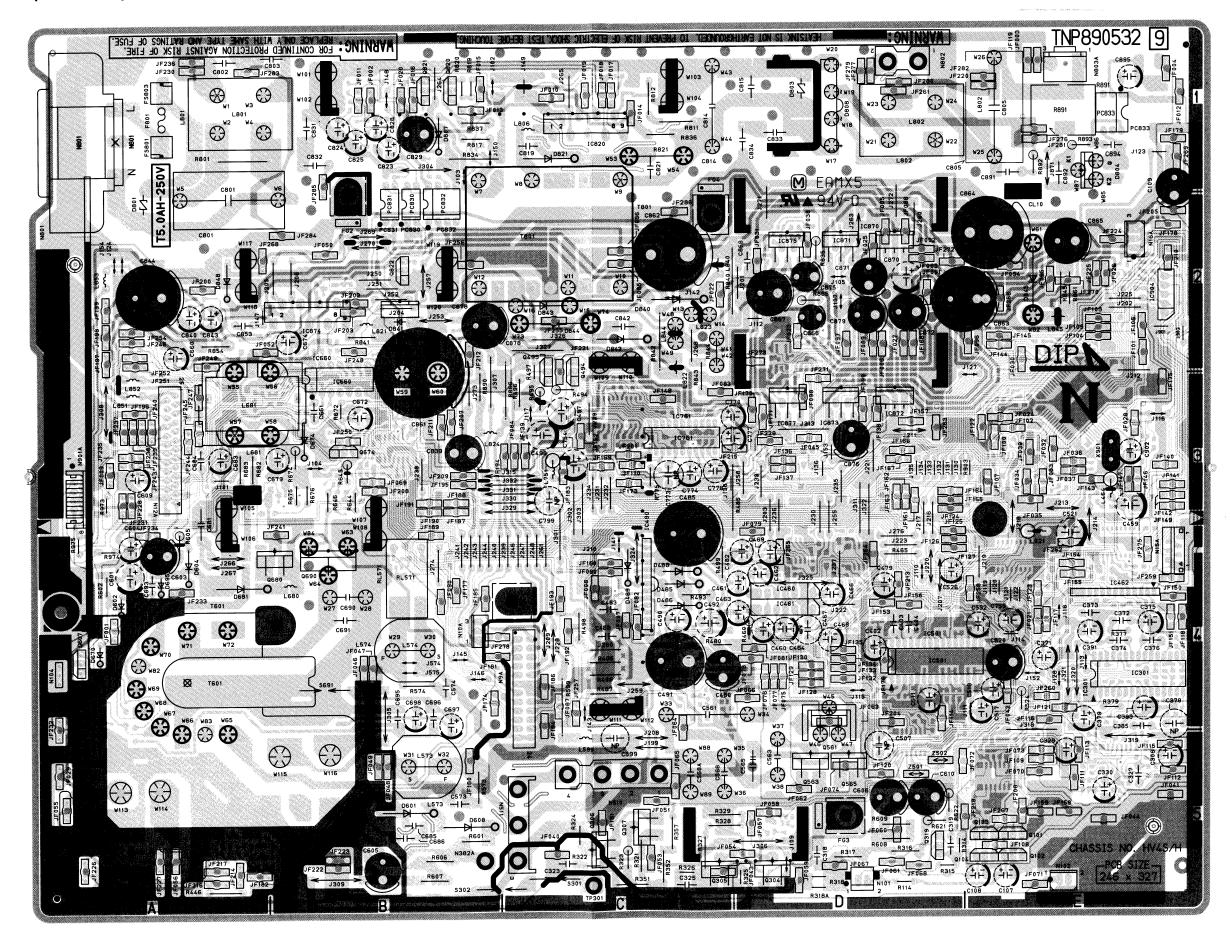


− 43 −

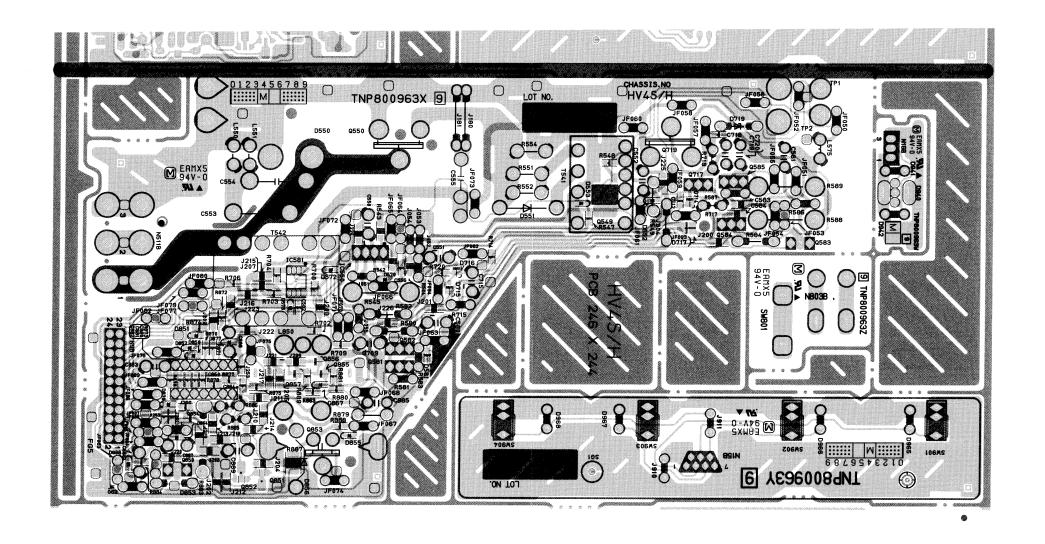
MAIN BOARD (Solder side)

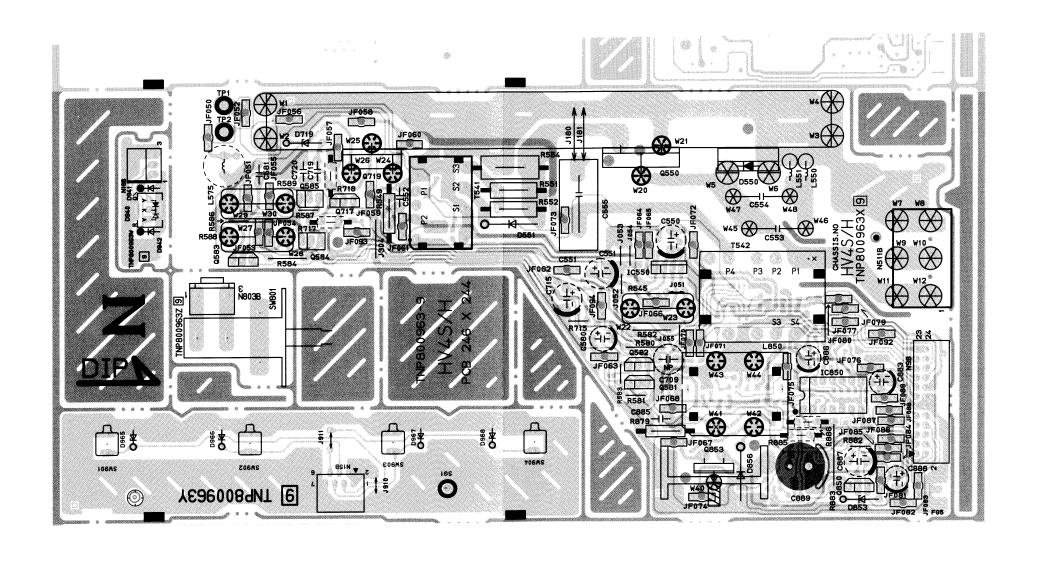


MAIN BOARD (Parts side)



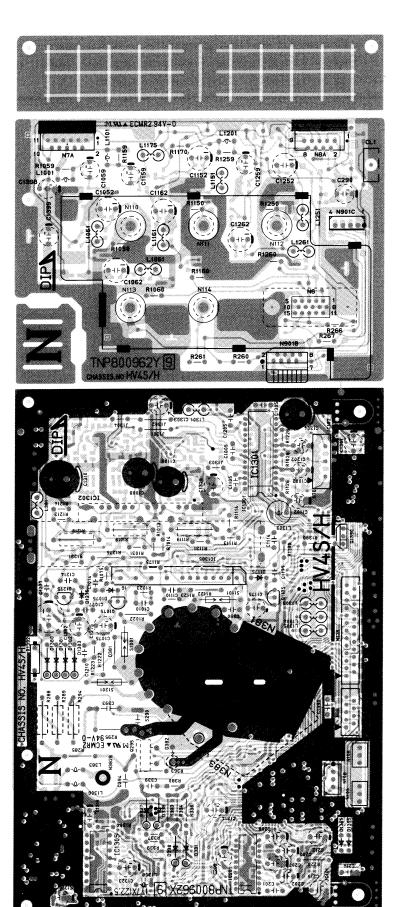
H. DEF. BOARD (Soldr side)





VIDEO BOARD (Solder side)

VIDEO BOARD (Parts side)



SCHEMATIC DIAGRAM

- IMPORTANT SAFETY NOTICE -

The component identified by shading or international symbol \triangle on the following schematic diagrams incorporate special features important for protection from X-Radiation, fire and electrical shock hazards. When servicing it is essential that only manufacturer's specified parts be used for those critical components.

NOTES:

1. RESISTOR

All resistors are carbon 1/4W resistor, unless otherwise noted by the following marks. Unit of resistance is ohm (Ω) , (K = 1,000, M = 1,000,000)

\bigcirc :	Non Flammable	∇ :	Solid
Ø:	Metal Oxide	(i)	Metal (Precision and high stability
	Wire Wound		Thermistor
\bigotimes :	Fusible		Positive coefficient Thermistor
<u>~</u>	Flame Proof Rectangular		

2. CAPACITOR

All capacitors are ceramic 50V capacitor, unless otherwise noted by the following marks. Unit of capacitance is μ F, unless otherwise noted.



3. COIL

Unit of inductance is μ H, unless otherwise noted.

4. VOLTAGE MEASUREMENT

Voltage is measured by a digital meter receiving normal signal.

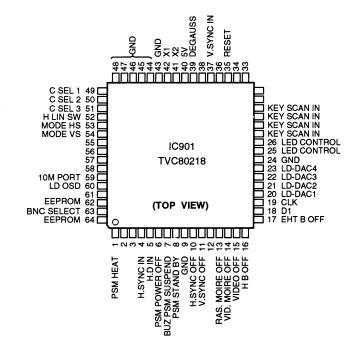
5. This schematic diagram is the letest at the time of printing and is subject to change without notice.

SERVICE NOTES:

This model has a section that does not share a common ground with the power supply section. The different sections are referred to as the HOT section and the COLD section in the precautions below.

- 1. Do not touch the HOT section and the COLD section at the same time. You may receive an electric shock.
- 2. Do not short the HOT section to the COLD section. This could blow the fuse or damage parts.
- 3. Never measure the HOT section and the COLD section at the same time when using tools such as oscilloscopes or multi-
- 4. Always unplug the unit before beginning any operation such as removing the chassis.

TVC80218 (IC901)



LA7838 (IC490)

MB88346BPFTF

Vss

АО з

AO 4 ==

AO 5 ==

AO 7 ==

AO 8 🗔

AO 9 \square

Voo \square

10

(IC502, IC751, IC1306, IC459)

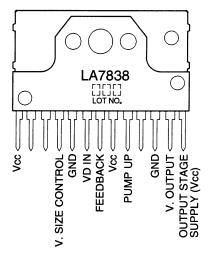
□ GND

□ AO 2

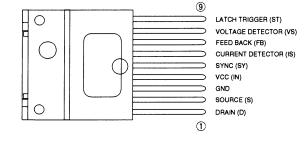
□ CLK

AO 11

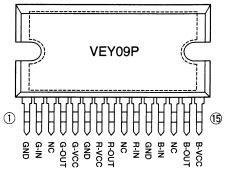
→ AO 12

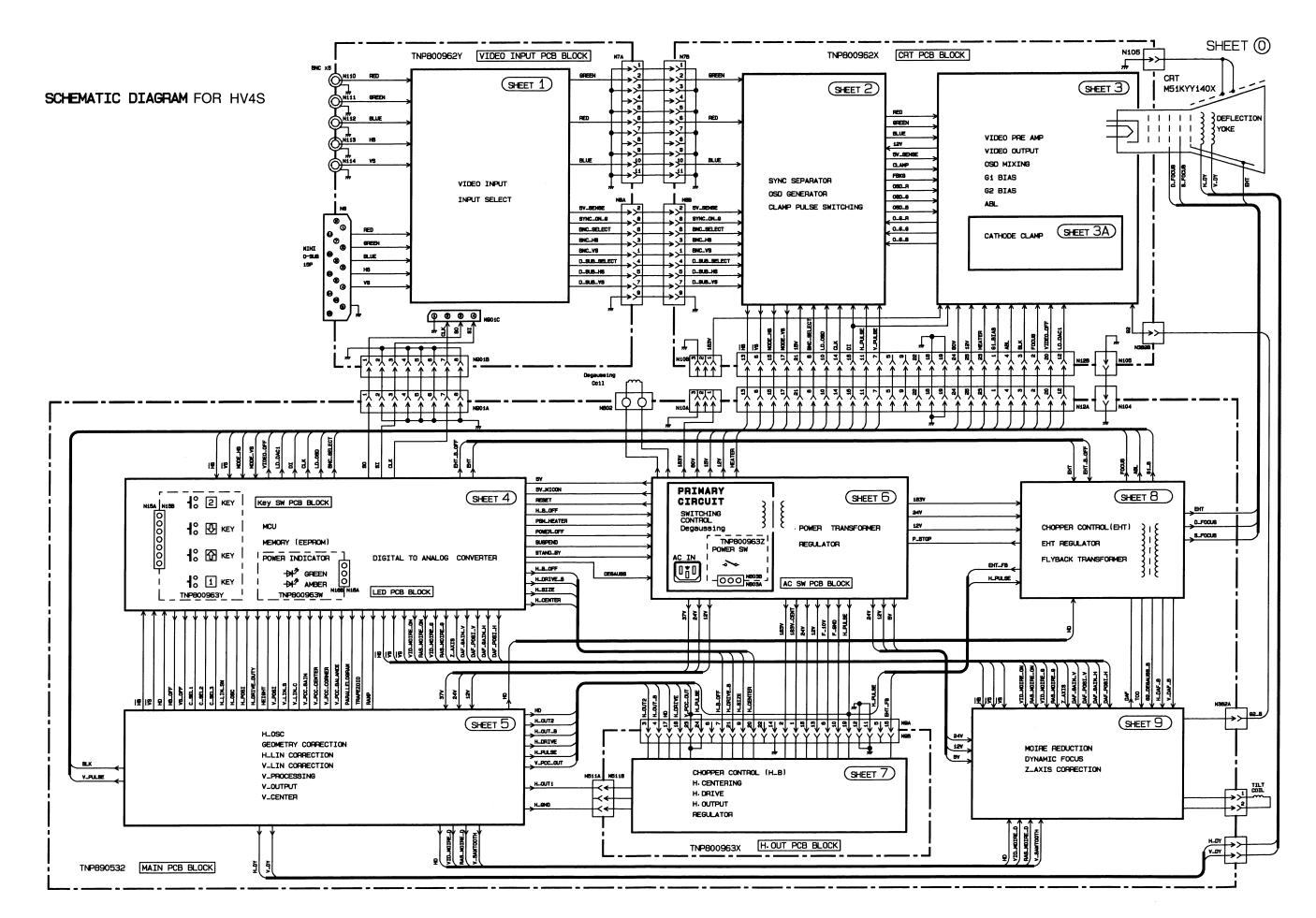


STR-S6533 (IC820)

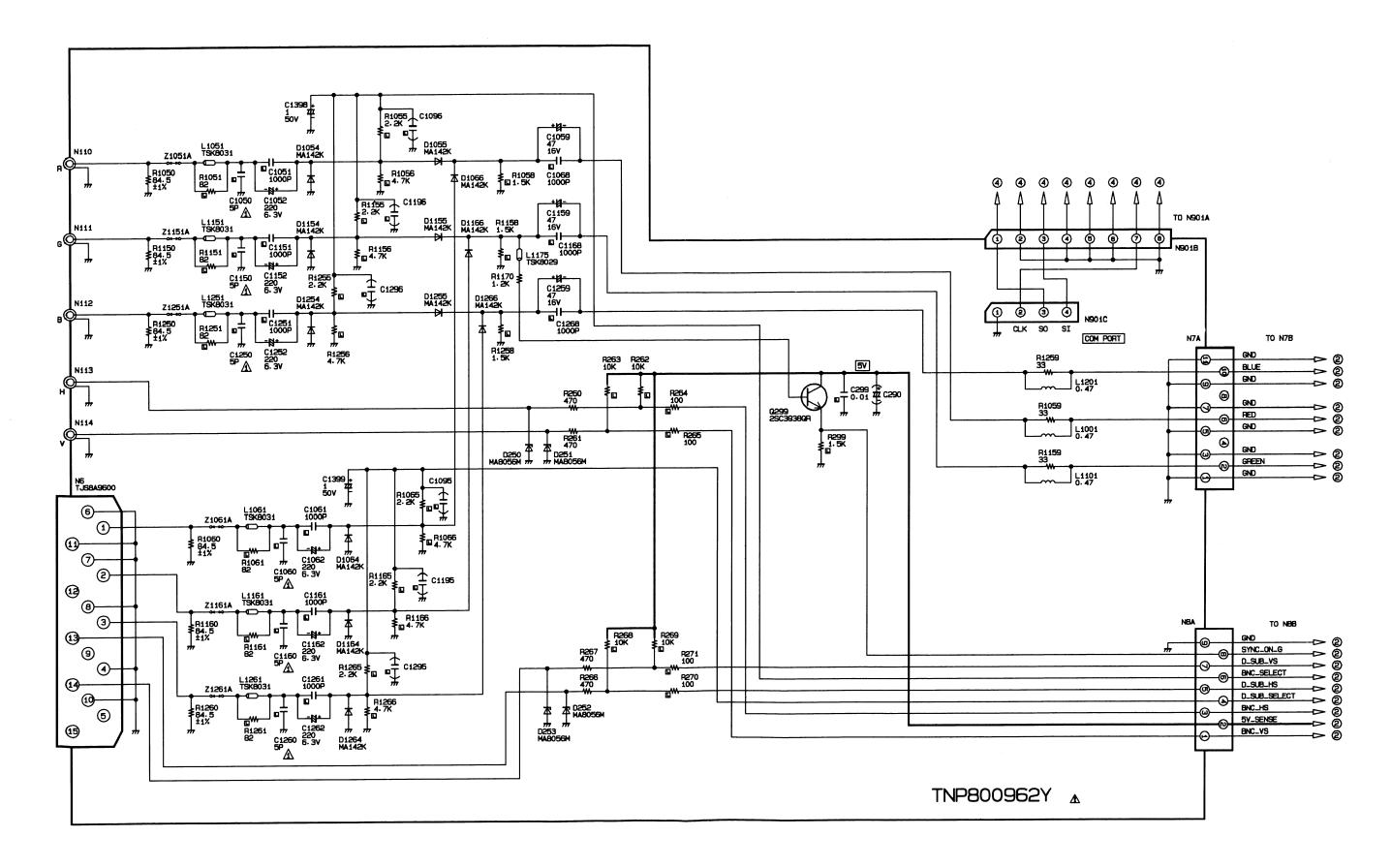


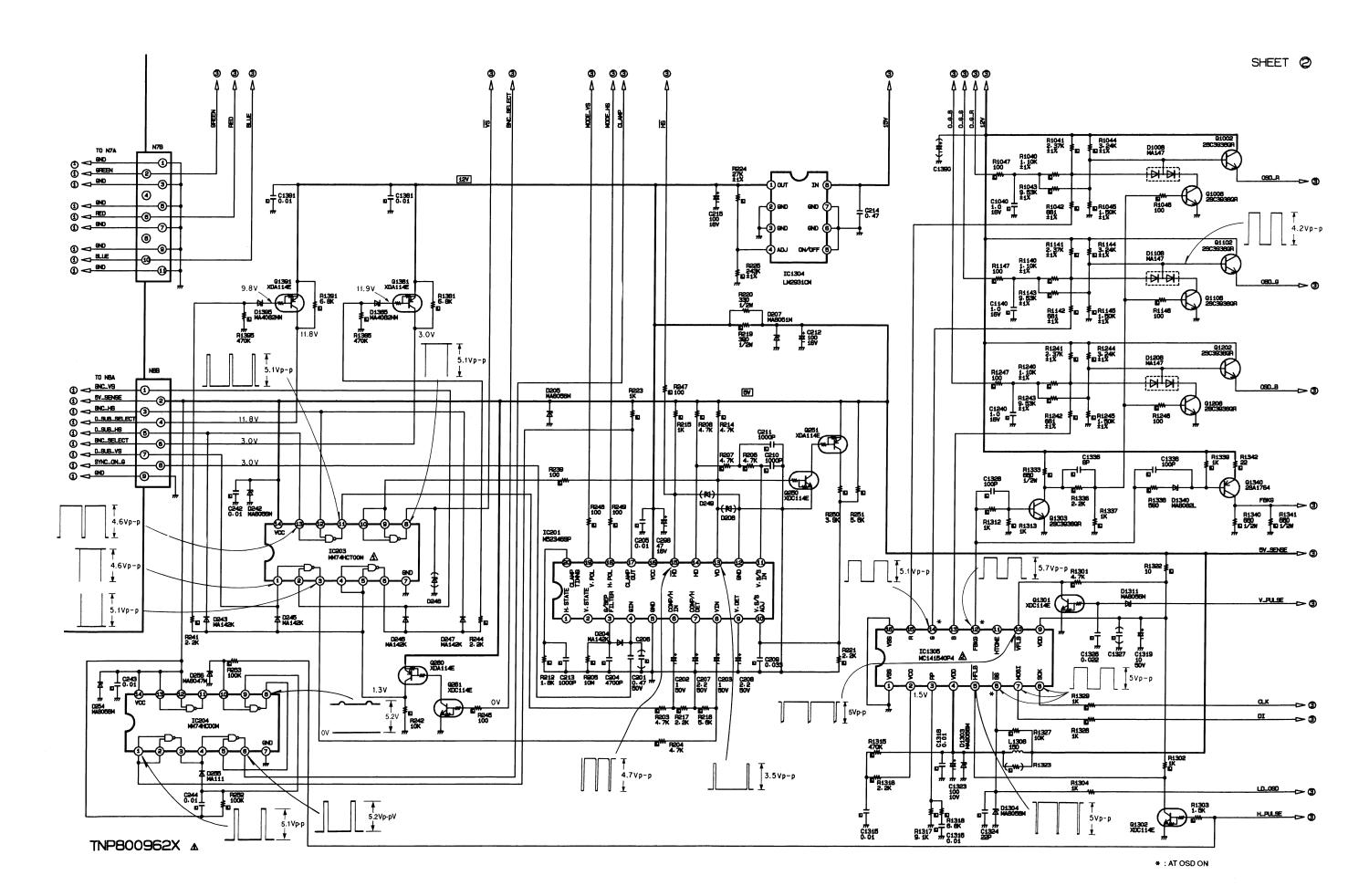
VEY09P (IC1302)

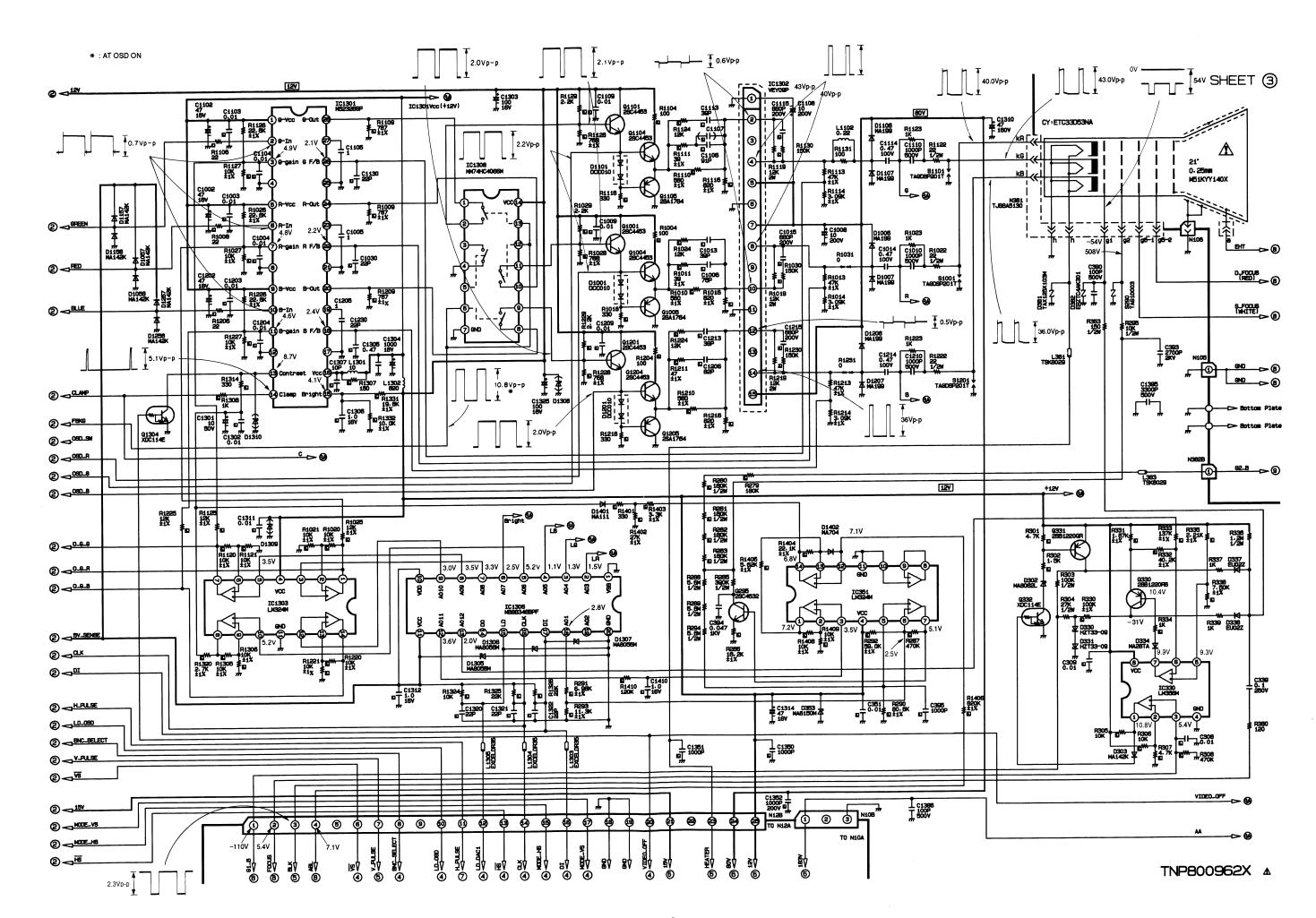


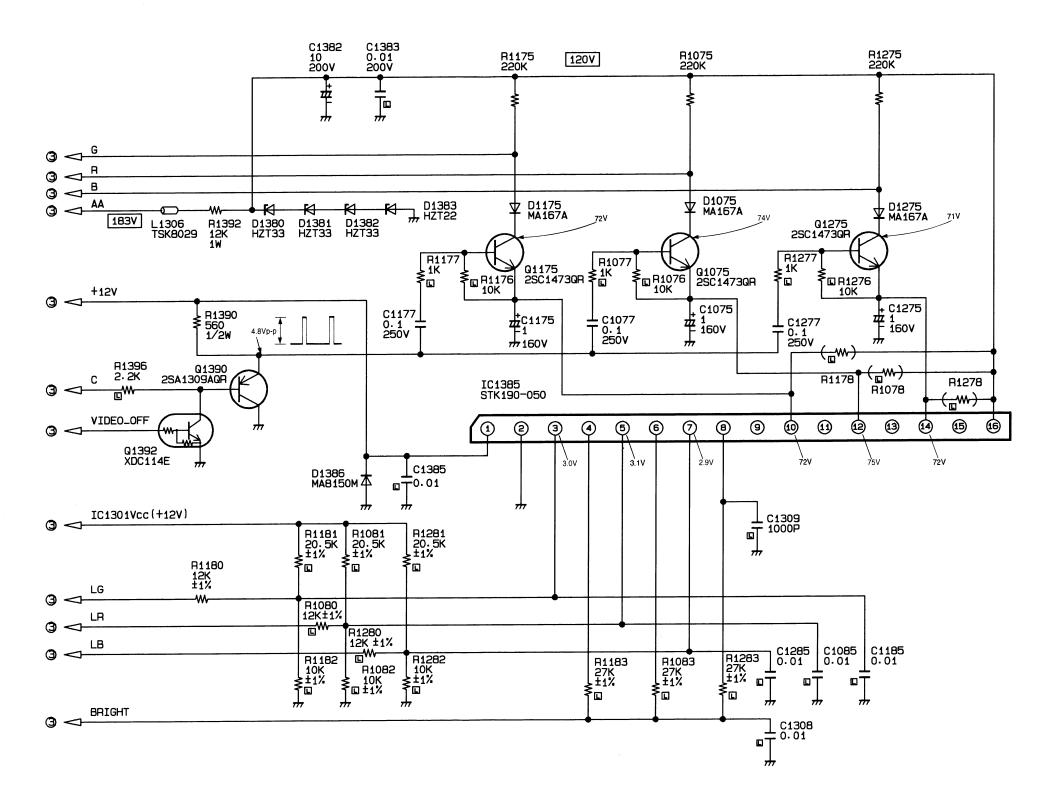


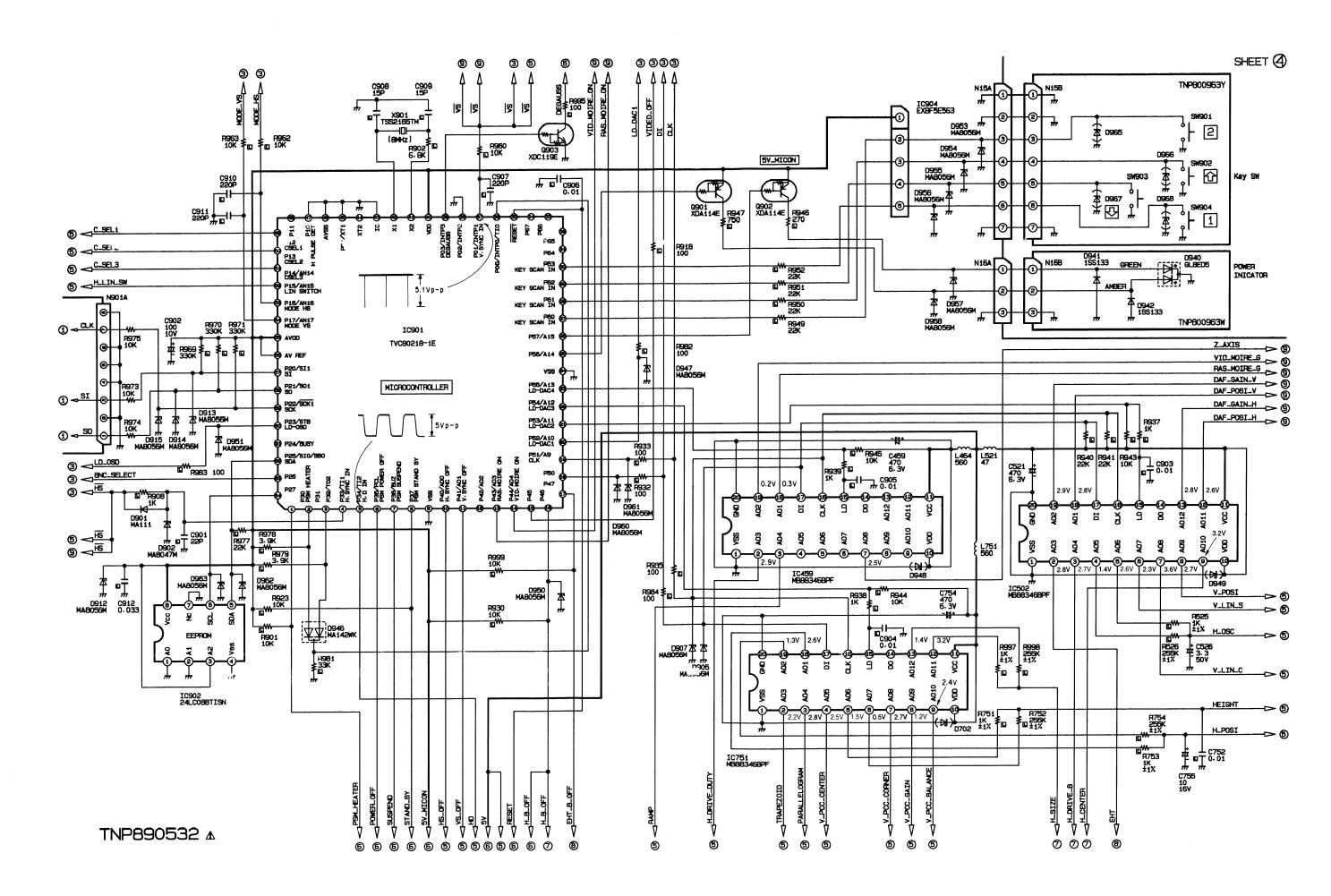
SHEET 1

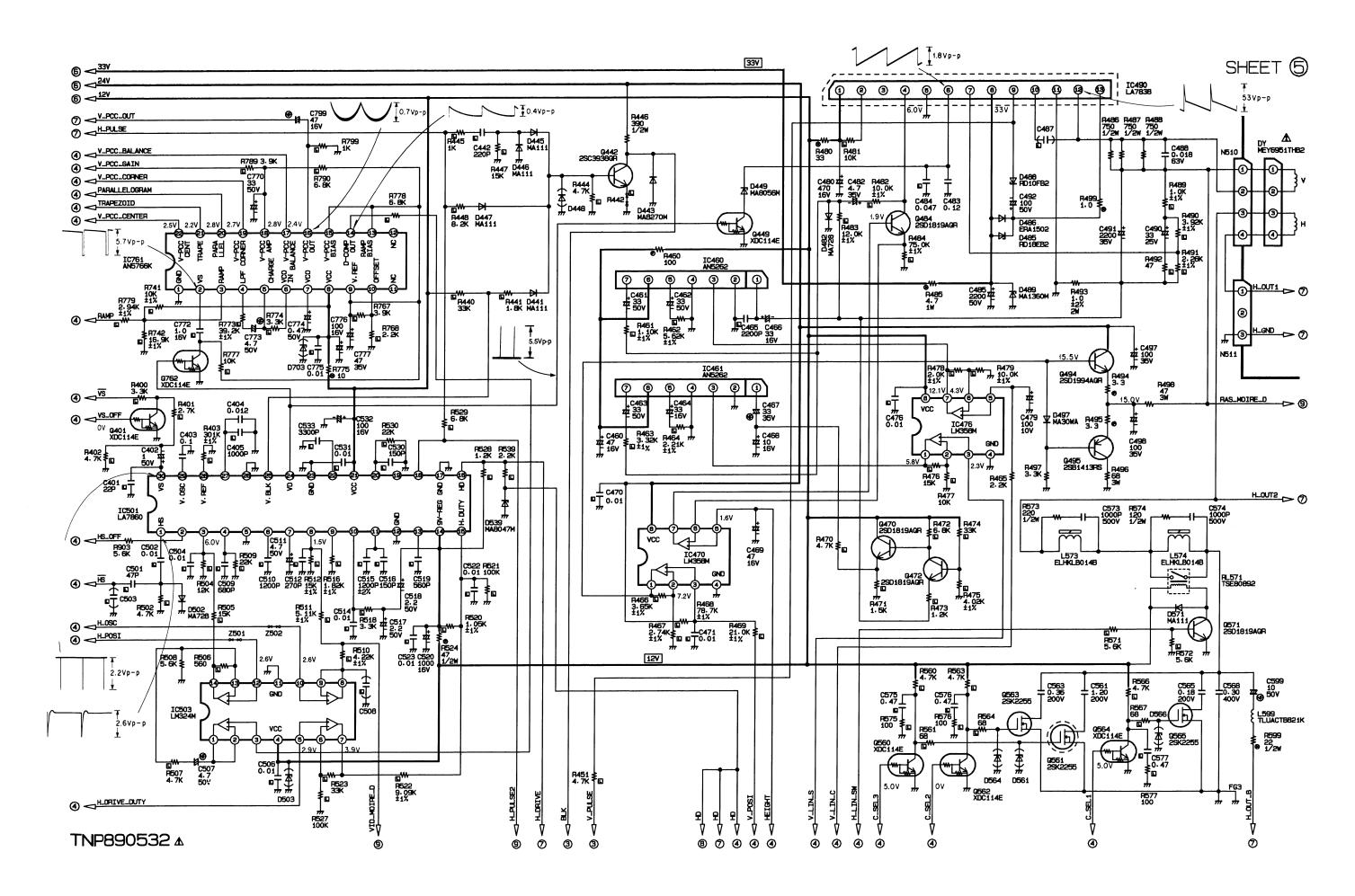


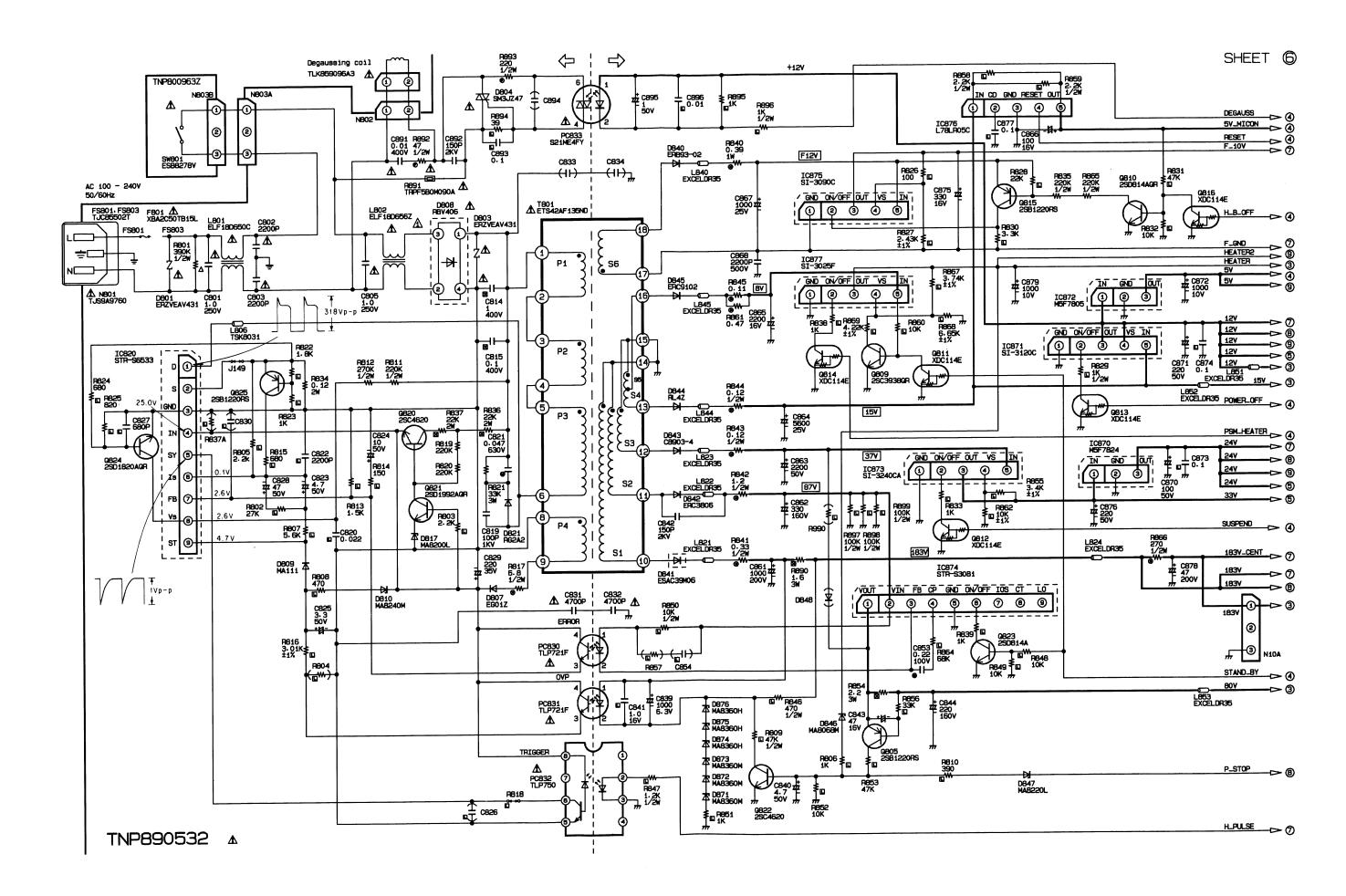


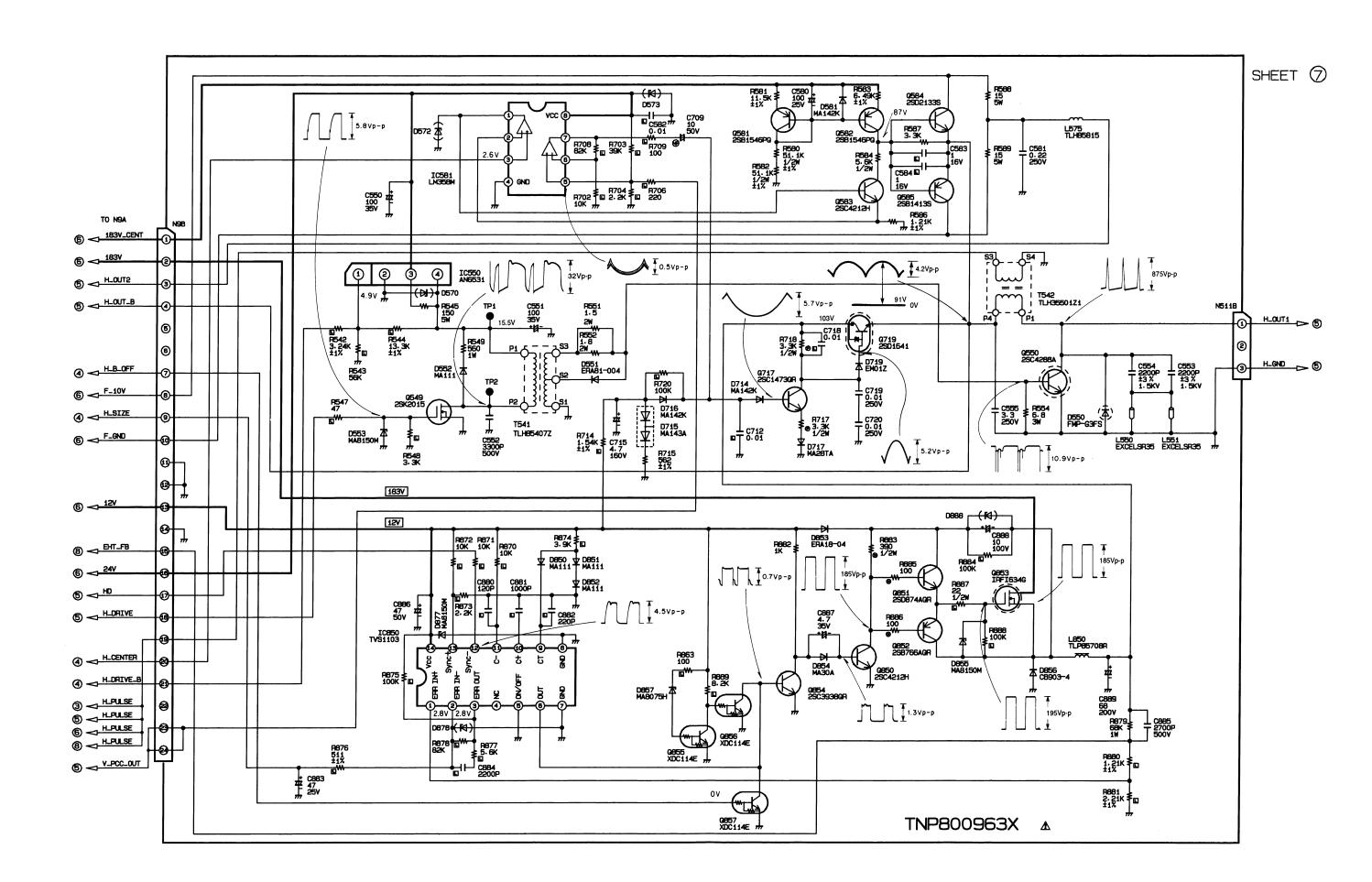




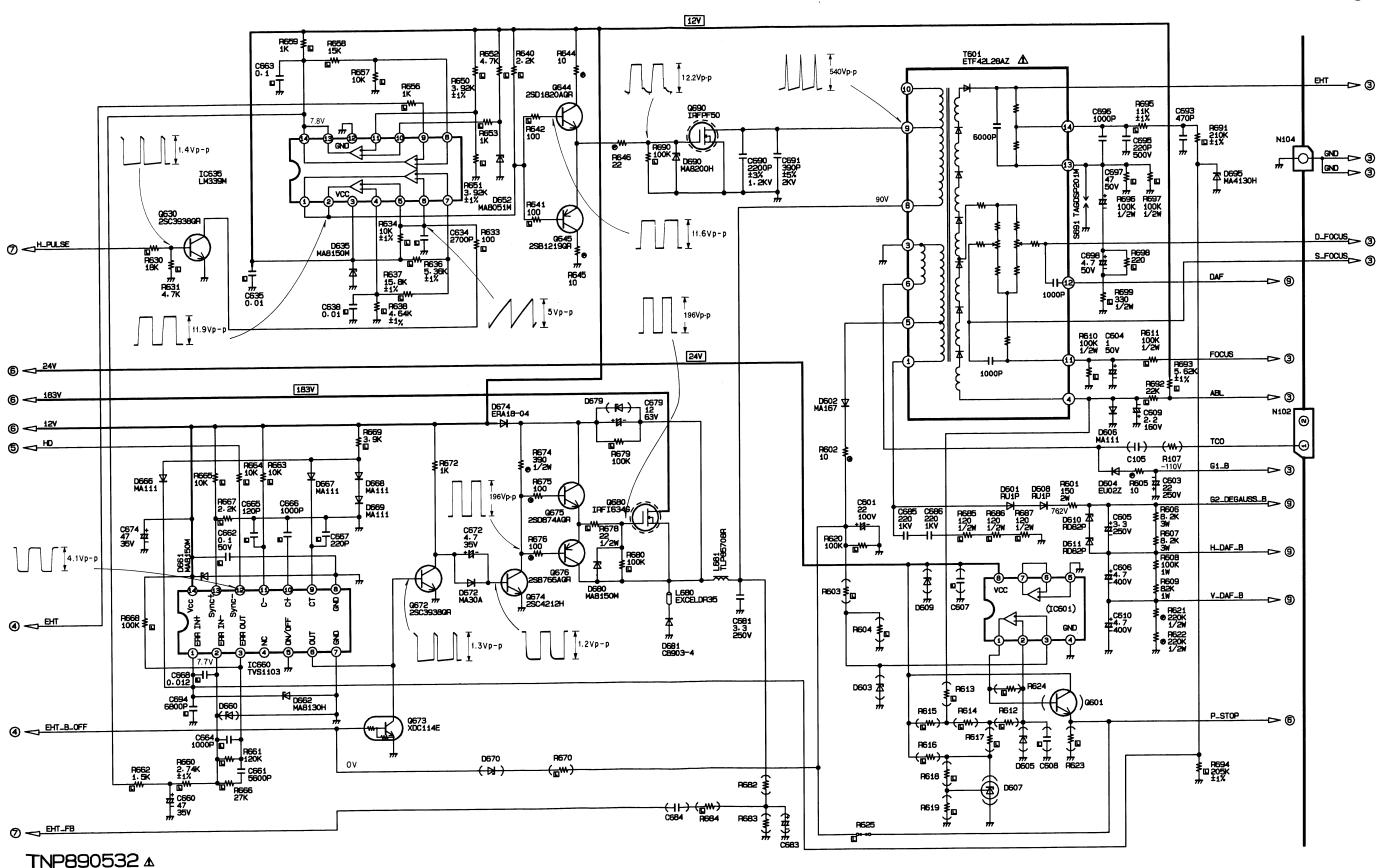


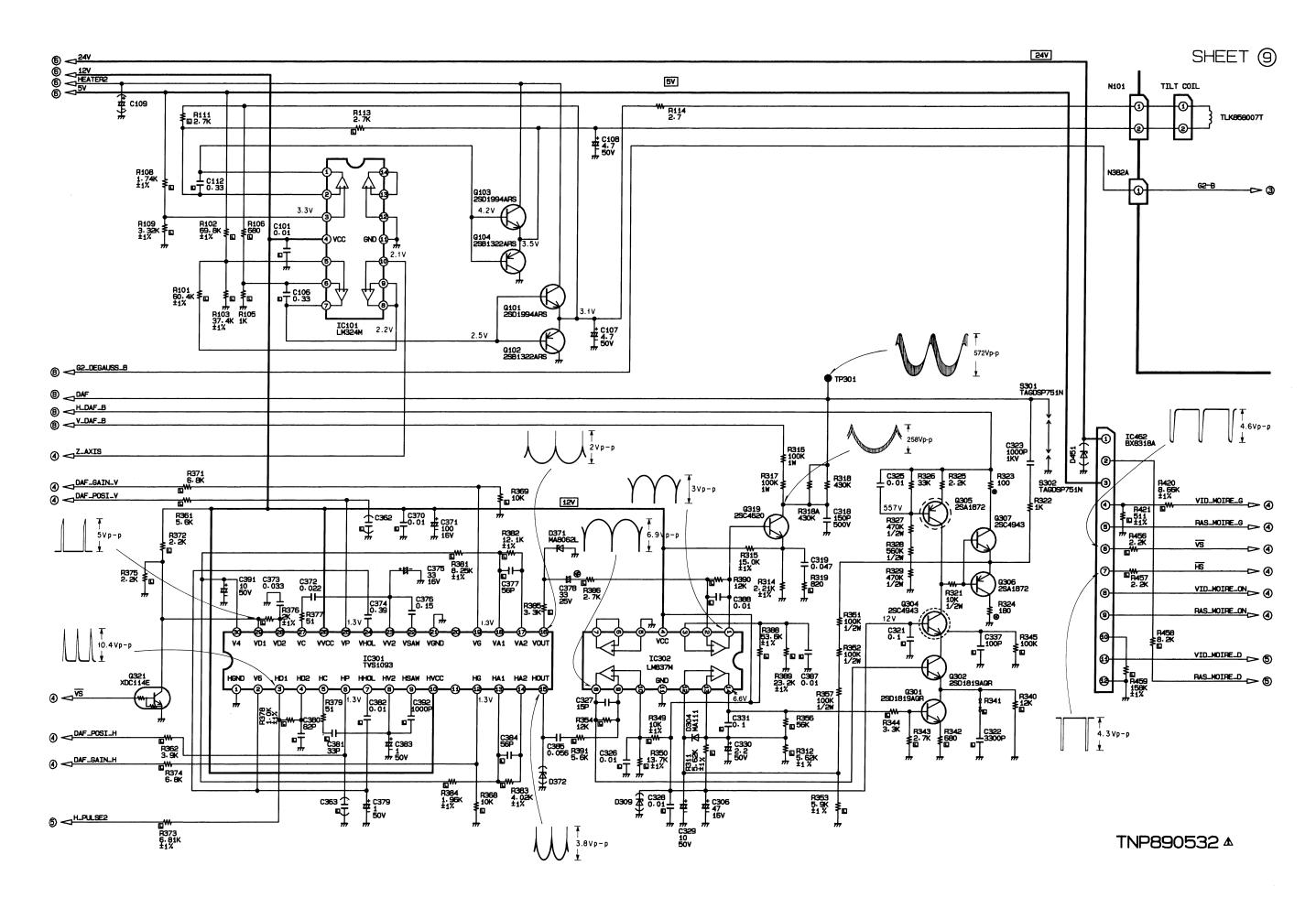




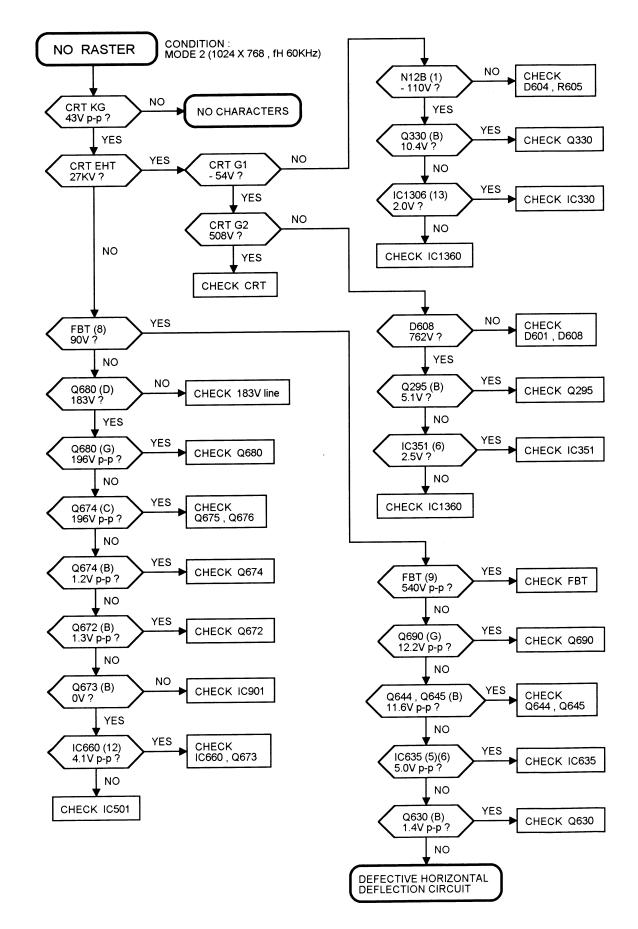


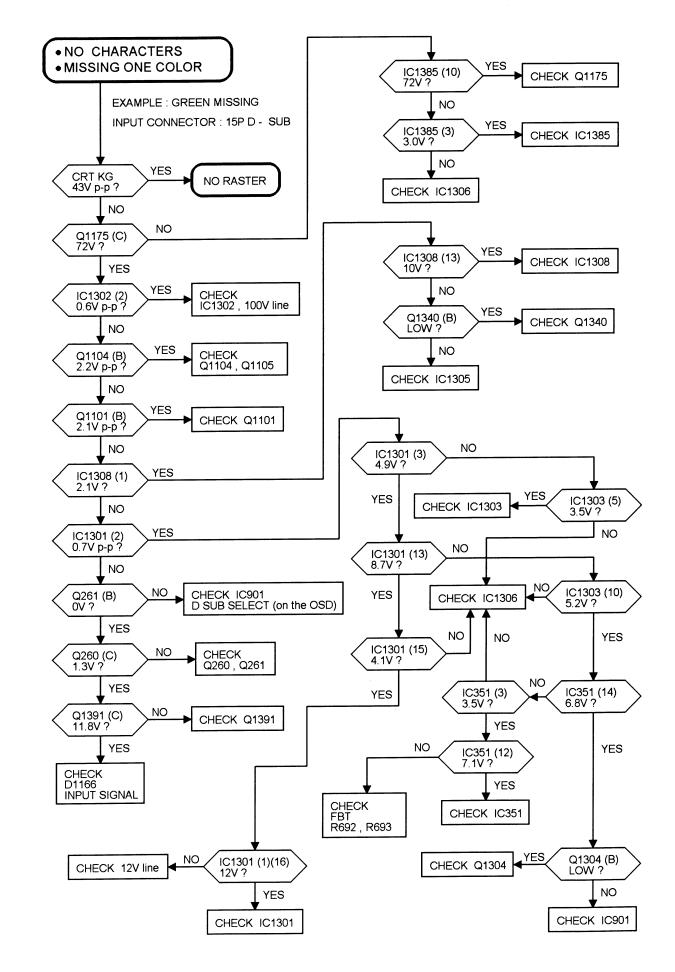


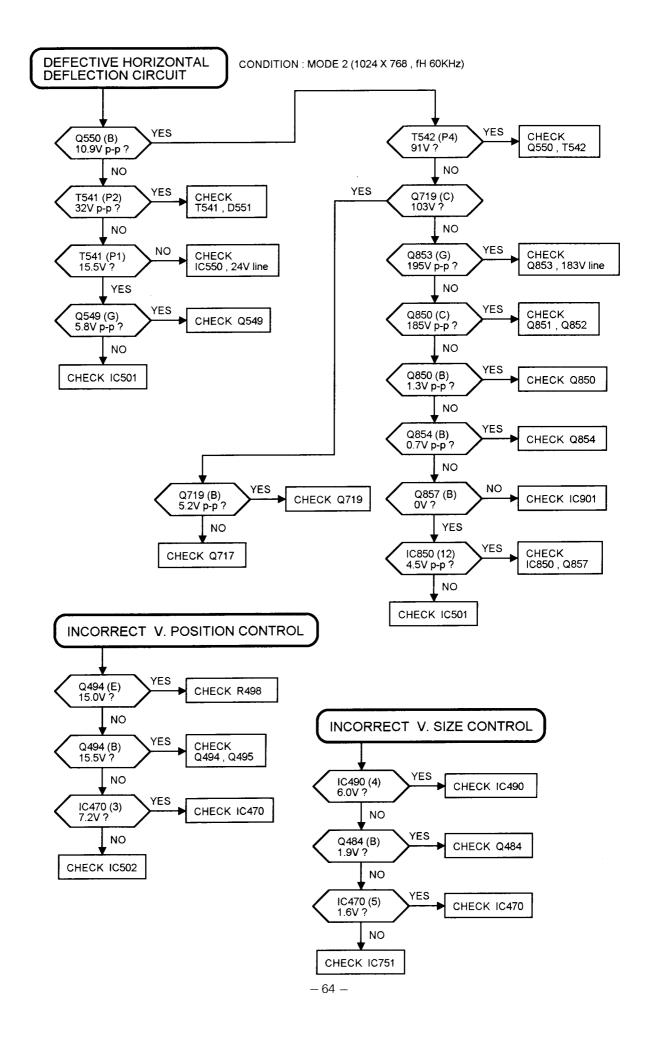


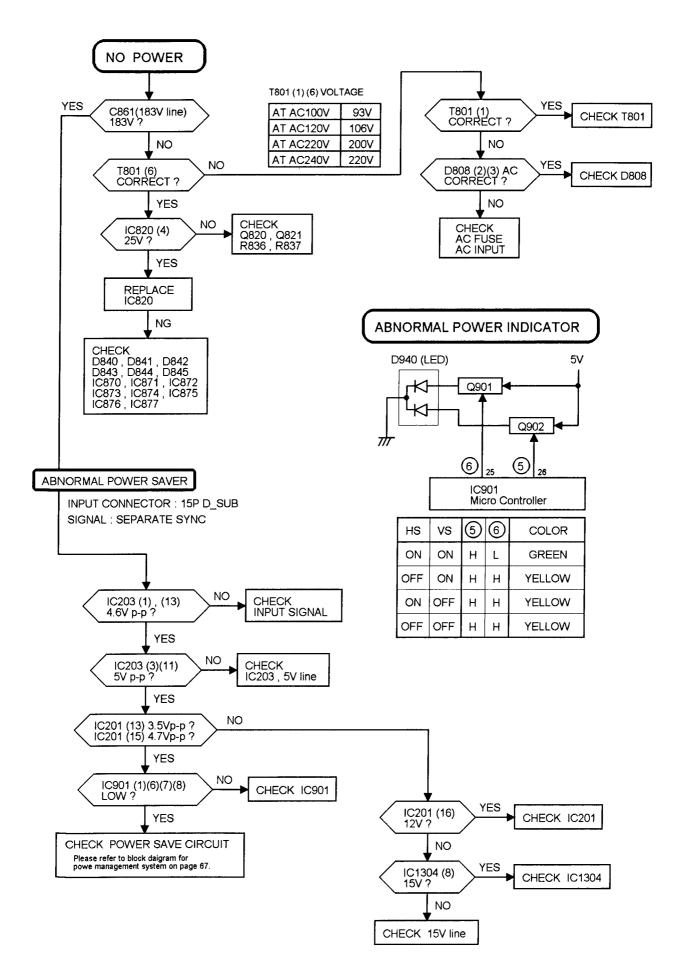


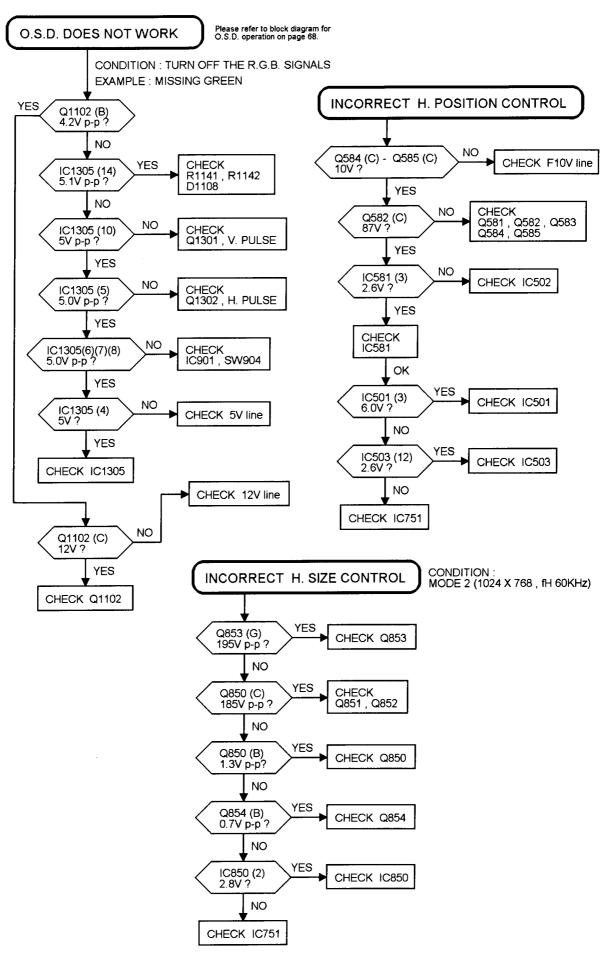
TROUBLE SHOOTING HINTS

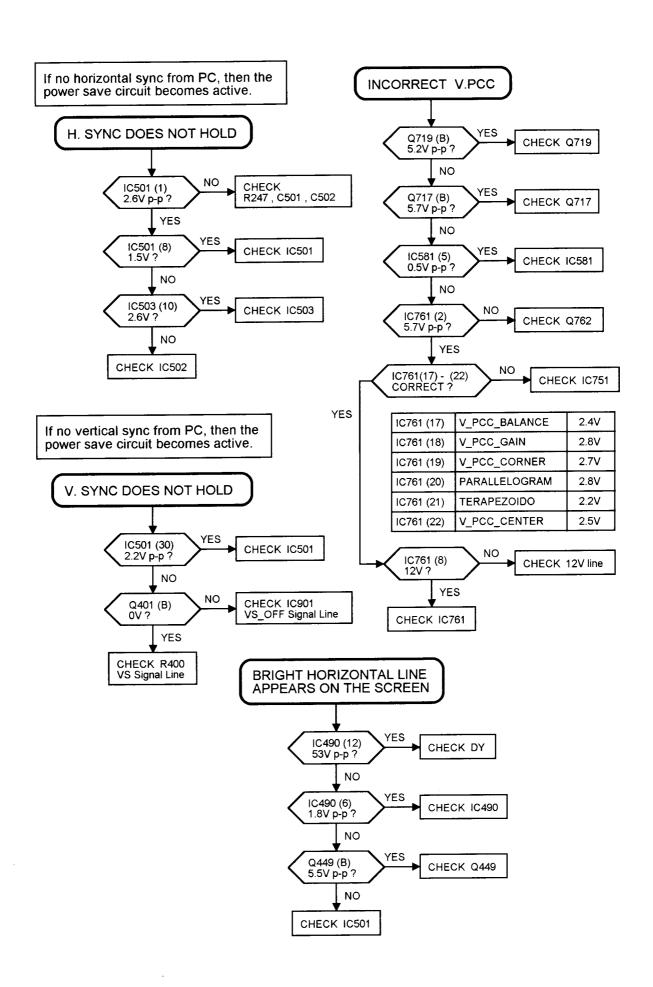


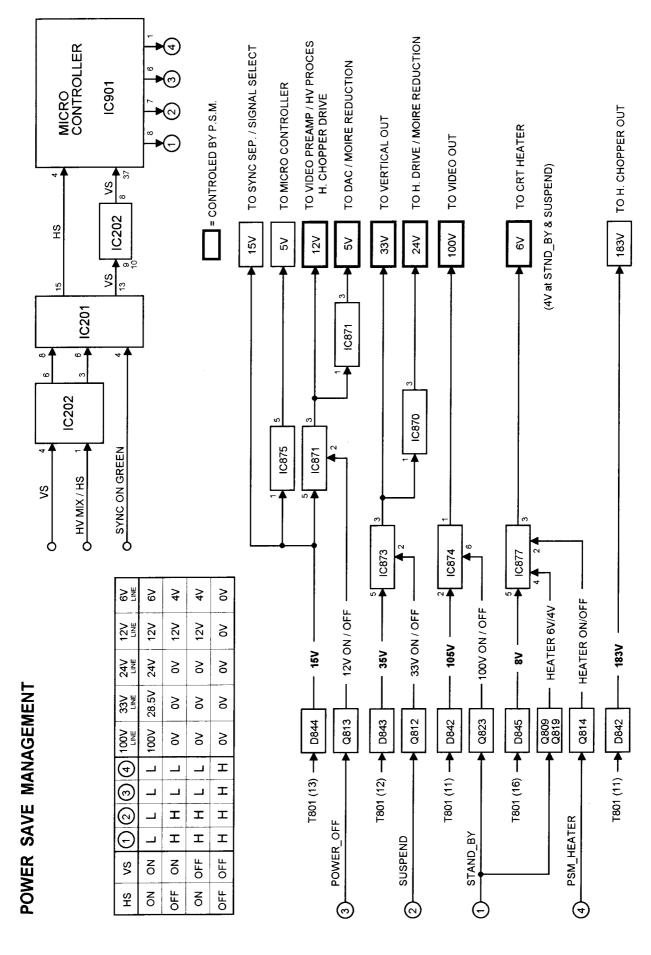


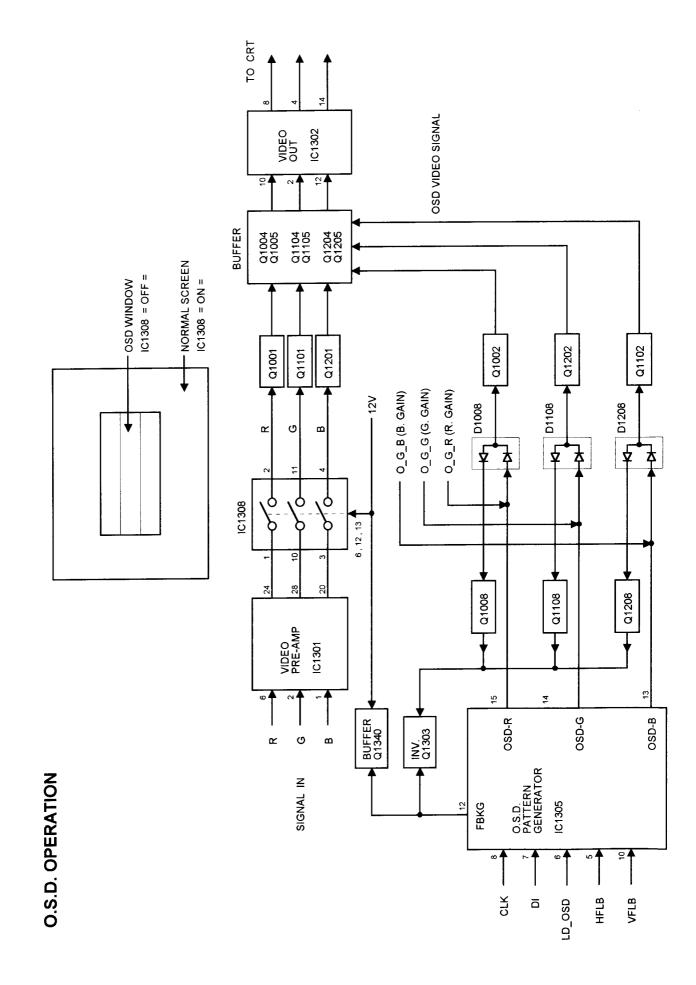












	Ref.No.	Part No.	Description		Ref.No.	Part No.	Description
<u>A</u>	36 37	MEY6951THB2 ETC33D53NA TLK858007T TLK859096A3 TSX8471-1	DEFLECTION YOKE CONVERGENCE COIL TILT COIL DEGAUSS COIL POWER CORD <nm></nm>		IC476 IC490 IC501	LM358MX LM358MX LA7838 LA7860 MB88346BPFTF	IC IC IC IC
Δ Δ Δ		TSX8484 TSX8492 TSX8493 TSX9571 TSX9571-3	POWER CORD<-G> POWER CORD<-SW> POWER CORD<-U> SIGNAL CORD<-G,-SW> SIGNAL CORD <nm,-u></nm,-u>		IC550 IC581 IC635	LM324MX AN6531 LM358MX LM339MX TVS1103	1C 1C 1C 1C
	39 40 41	TSX9574-1 TSX9577 TSX9578 TSX9803 TSX9990	1P CONNECTOR CORD FLAT CORD(11P) FLAT CORD(9P) FLAT CORD(7P) FLAT CORD(25P)		IC761 IC820 IC850	MB88346BPFTF AN5766K-A STR-S6533 TVS1103 M5F7824L	IC IC HYBRID IC IC IC
		TXAJTC3P1659 TXAJTV3P1657	3P CONNECTOR ASSY 3P CONNECTOR ASSY 3P CONNECTOR ASSY CRT EARTH LEAD MAGNET		IC872 IC873 IC874	SI-3120CA M5F7805L SI-3240CA STR-S3081 SI-3090C	HYBRID IC IC HYBRID IC HYBRID IC HYBRID IC
		T4F31519Q T4F72425Q T4F90226-2 TPC8551901 TPC8552401	POLYESTER TAPE(20M) COTTON TAPE(55M) MAIRA TAPE(30M) OUTER CARTON <nm> OUTER CARTON<-G,-SW,-U></nm>		IC877 IC901 IC902	L78LR05C SI-3025F TVC80218-1 24LC08BTISN EXBF5E563J	IC HYBRID IC IC IC RR COMBINATION
		TPD353002 TXAPD2D2131 TPE894011 TPE894011-1 TQE8513	PAD FILLER SET COVER <nm,-sw,-u> SET COVER<-G> FUN BAG COVER<-U></nm,-sw,-u>		IC1302 IC1303 IC1304	M52326SP VEY09P-Y2 LM324MX LM2931CMX MC141540P4	IC HYBRID IC IC IC IC
A		TQE8513-1 TQB820247 TQB820261 TQD1712010	FUN BAG COVER <nm,-g,-sw> INSTRUCTION BOOK<nm> INSTRUCTION BOOK <-G,-SW,-U> PASS CARD<-G,-SW,-U></nm></nm,-g,-sw>	:	IC1308	MM74HC4066MX	IC IC HYBRID IC
		TQF80720 TQF82880	WARRANTY CARD<-U> NHW LABEL <nm> HIGH VOLTAGE LABEL<nm> SERIAL NO. LABEL CARTON LABEL<-G></nm></nm>	(Q102 Q103 Q104	2SB1322AR 2SD1994AR 2SB1322AR	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR
		TQF85363-3 TQF85363-4 TQF86550 TQF86555 TQF86574	CARTON LABEL<-SW> CARTON LABEL<-U> EARTH CAUTION LABEL<-SW> AC-IN LABEL<-U> US PATENTS LABEL <nm></nm>	Ó	Q260 Q261 Q295	XDA114EU XDC114EU 2SC4632RB7LB	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR
Δ			POWER CORD LABEL<-U> EARTH CAUTION LABEL <nm,-g></nm,-g>	0	Q302 Q304 Q305		TRANSISTOR
	IC201 IC203 IC204	M52346SP MM74HCTOOMX MM74HCOOMX	IC IC IC IC		2319 2321 2330	XDC114EU 2SB122OR	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR
	IC330 IC351 IC459	LM358MX LM324MX MB88346BPFTF	IC IC IC IC	k K	Q401 Q442 Q449	XDC114EU 2SC3938R XDC114EU	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR
		AN5262 BX8318A	IC HYBRID IC	1			TRANSISTOR TRANSISTOR

REPLACEMENT PARTS LIST

- Important Safety Notice -

Components identified by the International symbol Λ have special characteristics important for safety. When replacing any of these components use only manufacture's specified parts.

ALLOWANCE

± 0.25pF

± 0.5pF

± 1pF

± 5%

± 10%

± 15%

± 20% P +100% - 0% Z +80% - 20%

0.01µF

Description

(z)

50V

C

D

F

J

κ

L М

RESISTOR **CAPACITOR** PART NAME & DESCRIPTION PART NAME & DESCRIPTION TYPE ALLOWANCE TYPE C i Carbon F ± 1% С Ceramic F Fuse J ± 5% E Electrolytic М Metal Oxide Κ ± 10% Р Polyester М S Solid ± 20% S Styrol W Wire Wound G ± 2% T Tantalum PP Polypropylene Part No. Description Part No. ERD25TJ104 (C) 100K (J) ECKF1H103ZF(C Example: 1/4W Example:

	Ref.No.	Part No.	Description	Ref.N	o. Part No.	Description
				2	4 TES8355	SPRING(CONTROL PANEL)
		CABINET &			TES8586	EARTH SPRING(SHIELD CASE)
		MAIN PARTS			TES9194-4	SPRING(CRT EARTH)SIDE/TOP
					5 TES9296	SPRING(POWER SWITCH)
Δ	1	TKY859103	BOTTOM CABINET		TES9532	SPRING(CRT EARTH)R
Δ	2	TKE8534A04	ESCUTCHEON <nm></nm>	1		
⚠ ⚠	2	TTE8534A04-3	ESCUTCHEON<-G,-SW,-U>		TE\$9533	SPRING(CRT EARTH)L
Δ	3	TKU894106-1H	REAR COVER W/MODEL PLATE		6 TEK6935	DOOR RATCH
Į			<nm></nm>	1 5	0 TMM15404-1	SPACER RING
					TMM16452	TILT COIL CLAMPER
Δ	3	TKU894106-3H	REAR COVER W/MODEL PLATE		9TMM7464	DEGAUSS COIL CLAMPER
]	3	TKU894106-4H	REAR COVER W/MODEL PLATE		TMM7468	CLAMPER
		1	<-SW>	2	7 TMM81416	CORD BAND(SMALL)
Δ	3	TKU894106-5H	REAR COVER W/MODEL PLATE		8 TMM81489	CARD SPACER
l 44	O	11100011100 011	TEAR SOUTH WATER	1 1	9 TMM8 1499	PUSH RIVET
			<-U>	'	TMM85475	CLAMPER(BIG)
	4	TKX865201	SPACER RING		114463473	CLAMPER (BIG)
		TKX866401-1	CONTROL PANEL HOLDER		TMM85490	LEAD CLAMPER
		TKX866901	CONTROL PANEL	i	TMM85576-1	CRT RUBBER
			MAIN PC BOARD HOLDER		TMM85586	RUBBER(WEDGE)
ΙI	′	1 K A B 7 O O 1	MAIN PC BOARD HOLDER		TMK84990	SET LEG
	•	TKX004000. 4	CDT DCB HOLDED	i	_	HOLDER(R)ITC
l l			CRT PCB HOLDER LED GUIDE	i	TMK85504	HOLDER(R)IIC
					TMKOFFOF	101050(1)170
		TKK859740	PANEL COVER PEDESTAL		TMK85505	HOLDER(L)ITC
				1 1 _	TMK85572	FERRITE STICK
	12	TKK859961	CENTER POST	1 -	0 THT 1028	SCREW(FOR CRT)
	40	TUV00400	DOTTOM DI LTS		5 XTN5+16A	SCREW
ľ		TUX86189	BOTTOM PLATE	4	4 XTN5+25A	SCREW
			PCB BRACKET(H-OUT)			
			PCB BRACKET(VIDEO)		8 XTV3+10A	SCREW
			SHIELD CASE(CRT)	4	6XTV3+20J	SCREW
	17	TUC87570	SHIELD CASE	-	XTV3+8G	SCREW
					7XYA4+EF8	SCREW
			SHIELD CASE(REAR)	2	1 XYE3+EJ10	SCREW
	19		SHIELD CASE(CRT PCB)			
	1		SHIELD PLATE(CRT PCB)		1M51KYY140X	PICTURE TUBE
Δ		TBM850519	MODEL PLATE <nm></nm>	3.	2 TNP800962-2	1 PC BOARD W/COMPONENT
Δ		TBM850535	MODEL PLATE<-G>			(VIDEO-INPUT/CRT)
				3:	3 TNP800963-2	1 PC BOARD W/COMPONENT
	Í	TBM850536-1	MODEL PLATE<-SW>			(H-OUT/KBD/SW/LED)
Δ	Ì	TBM850537-1	MODEL PLATE<-U>			
	22	TBX8586508	KNOB(POWER SWITCH)	3.	1TNP890532-2	1 PC BOARD W/COMPONENT
	23	TBX8752101	KNOB(CONTROL)	-		(MAIN)

Ref.No.	. Part No.	Description	Ref.No		Description
Q494	2SD1994AQ	TRANSISTOR		2SC3938R	TRANSISTOR
Q495	2SB1413R	TRANSISTOR	Q1104	2SC4453	TRANSISTOR
Q549	2SK2015	TRANSISTOR		2SA1764	TRANSISTOR
Q550	2SC4288ARL	TRANSISTOR	01108	2SC3938R	TRANSISTOR
Q 560	XDC114EU	TRANSISTOR		2SC1473QNC	TRANSISTOR
Q56O					
Q561	2SK2255F122	TRANSISTOR	1 7	2SC4453	TRANSISTOR
Q562	XDC114EU	TRANSISTOR	Q1202	2SC3938R	TRANSISTOR
Q563	2SK2255F122	TRANSISTOR	Q1204	2SC4453	TRANSISTOR
Q564	XDC114EU	TRANSISTOR	Q1205	2SA1764	TRANSISTOR
Q565	2SK2255F122	TRANSISTOR	Q1208	2SC3938R	TRANSISTOR
Q571	2SD1819AQ	TRANSISTOR	Q1275	2SC1473QNC	TRANSISTOR
Q581	2SB1546P	TRANSISTOR	01301	XDC114EU	TRANSISTOR
Q582	2SB1546P	TRANSISTOR	1 7	XDC114EU	TRANSISTOR
1 '		l I		2SC3938R	TRANSISTOR
Q583	2SC4212H	TRANSISTOR			
Q584	2SD2133S	TRANSISTOR	Q1304	XDC114EU	TRANSISTOR
Q585	2SB1413S	TRANSISTOR	Q1340	2SA1764	TRANSISTOR
Q630	2SC3938R	TRANSISTOR	Q1381	XDA114EU	TRANSISTOR
Q644	2SD1820AR	TRANSISTOR	1 1 1	2SA1309AQ	TRANSISTOR
Q645	2SB1219Q	TRANSISTOR	1 1	XDA114EU	TRANSISTOR
1 '		TRANSISTOR		XDC114EU	TRANSISTOR
Q672	25C3938R	ILVANOTOTOK	W1392	ROOTIAEO	I NANG 13 I GR
Q673	XDC114EU	TRANSISTOR		DIODES	
Q674	2SC4212H	TRANSISTOR	2001	NAA 4 4 014	DIODE
Q 675	2SD874AR	TRANSISTOR	D204	MA142K	DIODE
Q676	2SB766AQ	TRANSISTOR	D205	MA8056M	DIODE
Q68O	IRF1634G	TRANSISTOR	D207	MA8051M	DIODE
1			D242	MA8056M	DIODE
Q69O	IRFPF50	TRANSISTOR	D243	MA142K	DIODE
Q717	25C1473QNC	TRANSISTOR			
1 '	}		D245	MA142K	DIODE
Q719	2SD1641	TRANSISTOR	1	(1
Q762	XDC114EU	TRANSISTOR	D246	MA142K	DIODE
Q805	2SB1220R	TRANSISTOR	D247	MA142K	DIODE
			D250	MA8056M	DIODE
Q809	2SC3938R	TRANSISTOR	D251	MA8056M	DIODE
	2SD814AQ	TRANSISTOR			
Q811	XDC114EU	TRANSISTOR	D252	MA8056M	DIODE
Q812	XDC114EU	TRANSISTOR	D253	MA8056M	DIODE
		1	D254	MA8056M	DIODE
Q813	XDC114EU	TRANSISTOR	D255	1	DIODE
	l			MA 1 1 1	II.
Q814	XDC114EU	TRANSISTOR	D256	MA8047M	DIODE
Q815	2SB1220R	TRANSISTOR			
Q816	XDC114EU	TRANSISTOR	D302	MA8082L	DIODE
Q820	2SC4620V25	TRANSISTOR	D303	MA142K	DIODE
Q821	2SD1992AR	TRANSISTOR	D304	MA111	DIODE
1			D330	HZT33-09TD	DIODE
Q822	2SC4620V25	TRANSISTOR	D331	HZT33-09TD	DIODE
		TRANSISTOR	555.		-
	2SD814AQ	l	D334	MA28T-A	DIODE
	2SD1820AR	TRANSISTOR			
	2SB1220R	TRANSISTOR	D337	EU02Z	DIODE
Q85O	2\$C4212H	TRANSISTOR	D338	EU02Z	DIODE
			D353	MA8150M	DIODE
Q851	2SD874AR	TRANSISTOR	D371	MA8062L	DIODE
	2SB766AQ	TRANSISTOR			
	IRF 1634G	TRANSISTOR	D381	TAX125X103MA	VARISTOR
1 .	2SC3938R	TRANSISTOR	D382	ERZCO5DK201U	
1 '			D441	MA111	DIODE
Q855	XDC114EU	TRANSISTOR	D441	MA8270M	DIODE
Q856	XDC114EU	TRANSISTOR	D445	MA 1 1 1	DIODE
Q857	XDC114EU	TRANSISTOR			
	XDA114EU	TRANSISTOR	D446	MA111	DIODE
	XDA114EU	TRANSISTOR	D447	MA111	DIODE
1		TRANSISTOR	D449	MA8056M	DIODE
W 303	XDC114EU	ILVAISTOLOU	D443	MA728	DIODE
	0004450	TDANICICTOR			
	2SC4453	TRANSISTOR	D485	TVSRD18EB2	DIODE
	2SC3938R	TRANSISTOR			L TODE
	2SC4453	TRANSISTOR	D486	ERA1502	DIODE
Q1005	2SA1764	TRANSISTOR	D488	TVSRD10FB2	DIODE
	2SC3938R	TRANSISTOR	D489	MA1360M	DIODE
			D497	MASOWA	DIODE
01075	2SC1473QNC	TRANSISTOR	D502	MA728	DIODE
	1		0002	"	
N/1101	2SC4453	TRANSISTOR	1	1	I

Ref.No	. Part No.	Description	Ref.No	. Part No.	Description
D539 D550 D551 D552 D553	MA8047M FMP-G3FSLF ERA81004 MA111 MA8150M	DIODE DIODE DIODE DIODE DIODE	D875 D876 D877 D901 D902	MA8360H MA8360H MA8150M MA111 MA8047M	DIODE DIODE DIODE DIODE DIODE
D571 D581 D601 D602 D604	MA111 MA142K RU1P MA167 EUO2Z	DIODE DIODE DIODE DIODE DIODE	D905 D907 D912 D913 D914	MA8056M MA8056M MA8056M MA8056M MA8056M	DIODE DIODE DIODE DIODE
D606 D608 D610 D611 D635	MA111 RU1P RD82P RD82P MA815OM	DIODE DIODE DIODE DIODE DIODE	D915 D940 D941 D942 D946	MA8056M GL8ED5 1SS133 1SS133 MA142WK	DIODE DIODE DIODE
D652 D661 D662 D666 D667	MA8051M MA8150M MA8130H MA111 MA111	DIODE DIODE DIODE DIODE	D947 D950 D951 D953 D954	MA8056M MA8056M MA8056M MA8056M MA8056M	DIODE DIODE DIODE DIODE DIODE
D668 D669 D672 D674 D680	MA111 MA111 MA3OA ERA18-O4 MA815OM	DIODE DIODE DIODE DIODE DIODE	D955 D956 D957 D958 D960	MA8056M MA8056M MA8056M MA8056M MA8056M	DIODE DIODE DIODE DIODE DIODE
D681 D690 D695 D714 D715	CB903-4 MA8200H MA4130H MA142K MA143A	DIODE DIODE DIODE DIODE	D961 D962 D963 D1001 D1006	MA8056M MA8056M MA8056M DCC010 MA199	DIODE DIODE DIODE DIODE
D716 D717 D719 A D801 A D803	MA142K MA28T-A EMO1Z ERZVEAV431 ERZVEAV431	DIODE DIODE DIODE VARISTOR VARISTOR	D1008 D1054	MA199 MA147 MA142K MA142K MA142K	DIODE DIODE DIODE DIODE
D804 D807 D808 D809 D810	SM3JZ47LB181 EG01Z RBV406M MA111 MA8240M	DIODE DIODE DIODE DIODE DIODE	D1064 D1066 D1075	MA142K MA142K MA142K MA167A DCCO10	DIODE DIODE DIODE DIODE
D817 D821 D840 D841 D842	MA8200L RG2A2 ERB93-02 ESAC39M06ES ERC3806	DIODE DIODE DIODE DIODE	D1107 D1108 D1154	MA 199 MA 199 MA 147 MA 142K MA 142K	DIODE DIODE DIODE DIODE
D843 D844 D845 D846 D847	CB903-4 RL4Z ERC9102L MA8068M MA822OL	DIODE DIODE DIODE DIODE DIODE	D1158 D1164 D1166	MA142K MA142K MA142K MA142K MA167A	DIODE DIODE DIODE DIODE
D850 D851 D852 D853 D854	MA111 MA111 MA111 ERA18-04 MA30A	DIODE DIODE DIODE DIODE DIODE	D1206 D1207 D1208	DCC010 MA199 MA199 MA147 MA142K	DIODE DIODE DIODE DIODE DIODE
D855 D856 D857 D871 D872	MA8150M CB903-4 MA8075H MA8360M MA8360M	DIODE DIODE DIODE DIODE DIODE	D1257 D1258 D1264	MA 142K MA 142K MA 142K MA 142K MA 142K MA 142K	DIODE DIODE DIODE DIODE DIODE
D873 D874	MA8360M MA8360H	DIODE DIODE		MA167A MA8056M	DIODE

	Ref.No.	Part No.	Description		Ref.No.			Descr	iption	
]	D1304	MA8056M	DIODE		T541	TLH85407Z	COIL			
ו	D1305	MA8056M	DIODE		T542	TLH85501Z1	COIL			
וַ	D1306	MA8056M	DIODE	À	T601	ETF42L28AZ	1	CK TRANS	S.	
c		MA8056M	DIODE	Δ	T801	ETS42AF135ND	TRANS	i .		
l (c	D1311	MA8056M	DIODE							
						CAPACITORS				
		MA8082L	DIODE							
1	01380	HZT33-09TD	DIODE		C101	ECUX1H103KBG	c c	.01UF	K	50 V
	D1381	HZT33-09TD	DIODE		C106	ECUX1E334ZFW	c c	.33UF	Z	25V
jo	D1382	HZT33-09TD	DIODE		C107	ECEA1HGE4R7	E	4.7UF		50 V
	D1383	HZT22	DIODE		C108	ECEA1HGE4R7	E	4.7UF		50V
.					C112	ECUX1E334ZFW	c c	.33UF	Z	25 V
	01385	MA4082NM	DIODE							
	01386	MA8150M	DIODE		C201	ECQV1H474JM	P C	.47UF	J	50 V
	01395	MA4082NM	DIODE		C202	ECEA1HGEO10	E	1UF		50 V
	01401	MA 1 1 1	DIODE		C203	ECEA1HGEO10	Ε	1UF		50 V
10	01402	MA704	DIODE		C204	ECUX1H472KBG	C 4	700PF	K	50 V
					C205	ECUX1H103KBG	k o	.01UF	K	50 V
İ		COIL &								
		TRANSFORMERS			C207	ECEA1HGE2R2	E	2.2UF		50 V
					ı	ECEA1HGE2R2		2.2UF		50 V
l _i	_381	TSK8029	FERRITE CORE		J	ECUX1H333KBX	1 '	033UF	K	50 V
- 1		TSK8029	FERRITE CORE		C210	ECUX1H102KBN		OOOPF	ĸ	50 V
		ELEY561KA	PEAKING COIL		C211	t	ľ	OOOPF	ĸ	50V
- 1		ELEY470KA	PEAKING COIL				·			<u>-</u>
		EXCELSR35S	LC COMBINATION		C212	ECEA1CGE101	F	100UF		16V
								OOOPF	K	50V
- 4	_551	EXCELSR35S	LC COMBINATION			ECQV1H474JM	l .	.47UF	Ĵ	50V
		ELHKLBO14B	COIL			ECEA1CGE101		100UF	•	16V
		ELHKLBO14B	COIL		•	1	1	.01UF	K	50V
		TLH85815T	COIL		0272	LOOK IIII OOKBU	٦	.0101		
		TLUACNB821K	PEAKING COIL		C243	ECUX1H103KBG	c o	.01UF	K	50V
	_333	LUACINDOZIK	LAKING OOIL					.01UF	ĸ	50V
l,	-680	EXCELDR35C	LC COMBINATION			ECEA1CGE470	F	47UF		16V
			CHOKE COIL			ECUX1H103KBG	5 0	.01UF	K	50V
		ELEY561KA	PEAKING COIL			!	E O	47UF	1	16V
		ELF18D65OC	LINE FILTER		2200	2027,002470	_	-, , O1		
*		ELF18D656Z	LINE FILTER		C308	ECUX1H103KBG	c o	.01UF	K	50V
ا ند	-502	EE1 1000000Z						.01UF	ĸ	50V
	806	TSK8031	FERRITE CORE			ECKD2H151KB5	i e	150PF	ĸ	500V
			LC COMBINATION			ECQV1H473JM		047UF	J	50V
			LC COMBINATION			-		0.1UF	z	50V
			LC COMBINATION		JU2 1	2007 11110421 X	_	J. , J.	_	55.
		EXCELDR35C	LC COMBINATION		C322	ECYX1H332JCW	с з	300PF	J	50V
۱۲	-024	FYCEFDK99C	CO COMBINATION					000PF	J	1KV
	840	EXCELDR35C	LC COMBINATION			ECKF1H103ZF		.01UF	z	50V
			LC COMBINATION			ECUX1H103ZF		.01UF	K	50 V
			LC COMBINATION				c	15PF	Ú	50 v
			CHOKE COIL		JJ21	_551 11115000	-		5	
			LC COMBINATION		C328	ECUX1H103KBG	0 0	.01UF	к	50V
	-551	LYCLEDKOOC	LO COMBINATION				E O	10UF		50V
	.852	EXCELDR35C	LC COMBINATION	1				2.2UF		50V
			LC COMBINATION			ECUX1H104ZFX		0.1UF	Z	50V
			PEAKING COIL			ECUX1H1042FX		100PF	J	50V
- 1			FERRITE CORE			LOOK IIIIO IOCG	~	, OUF I	J	~~ "
					C339	ECQE2104KF	P .	0.1UF	K	200V
٦	1061	TSK8031	FERRITE CORE					.01UF	K	50V
,	1101	EL EYUDATKA	DEAKING COTI			ECUX 1H103KBG		.01UF	K	50V
			PEAKING COIL					100UF	N	16V
			CHIP COIL						. 1	50V
- 1			FERRITE CORE		C372	ECQB1H223JF		022UF	J	30 v
			FERRITE CORE	[C373	ECQB1H333JF	D ^	033UF	J	50V
-	.11/5	TSK8029	FERRITE CORE			•			J	50V 50V
,	1004	EL EVUDAZIZA	DEAKING COLL		,	ECQV1H394JM	P G E	. 39UF	J	16V
			PEAKING COIL					33UF	.1	50V
í			FERRITE CORE	- 1		ECQV1H154JM ECUX1H560JCG		.15UF 56PF	J J	50V 50V
			FERRITE CORE		C377	ECOV IUDPOOCE	<u> </u>	JOFF	U	50 v
- 1			PEAKING COIL		0270	ECEA 4 ECNICOO	=	22115		25V
-	.1302	TLUACNB821K	PEAKING COIL			ECEA1EGN330	Ę.	33UF		
.	400-	EV.0E. BE = = =	I O COMPANIATION			ECEA1HGEO10		1UF		50V
			LC COMBINATION			ECUX1H82OJCG		82PF	J	50V
			LC COMBINATION			ECUX 1H330JCG		33PF	J	50V
			LC COMBINATION	ľ	C382	ECUX1H103KBG	. 0	.01UF	K	50V
			FERRITE CORE	ļ			_			
<u> </u>	.1308	ELEXH151KA	PEAKING COIL	k	0383	ECEA1HGEO10	<u> </u>	1UF		50V

Ref.No.	Part No.		Desc	riptior	1	Ref.No.	Part No.			riptio	n
C384	ECUX1H56OJCG	C	56PF	J	50V	C530	ECUX1H151JCG	c	150PF	J	50V
		C P	0.056UF	J	50V		ECUX1H103KBG	c	0.01UF	ĸ	50V
	ECQB1H563JF	1				• •	ł	E	100UF	13	16V
	ECUX1H103KBG	С	0.01UF	K	50V	4.	ECEA1CGE101				
C388	ECUX1H103KBG	С	0.01UF	K	50V	1	ECUX1H332KBN	С	3300PF	K	50V
	ECKD2H101KB5	Ċ	100PF	K	500V	C550	ECEA1VGE101	Ε	100UF		35V
C391	ECEA1HGE100	E	10UF		50 V	C551	ECEA1VGE101	E	100UF		35V
			1000PF	J	50V		ECKD2H332KB5	c	3300PF	Κ	500V
	ECUX1H102JCX	С						PP			1.5KV
	ECKD3D272KBP	С	2700PF	K	2KV	10000			2200PF	Н	
C394	ECQE10473KF	Р	0.047UF	K	1KV	C554	ECWH15H222HN	PP	2200PF	Н	1.5KV
	ECUX1H102KBN	С	1000PF	K	50 V	C555	ECQE2335KF	Р	3.3UF	K	200V
C401	ECUX1H22OJCN	С	22PF	J	50 V	C561	ECWF2H125HDB	PP	1.2UF	Н	500V
	l .	E	1UF	•	50V			PP	0.36UF	Н	200\
-	ECEA1HGEO10							PP	0.18UF	H	500V
	ECQV1H104JM	Р	0.1UF	J	50 V						
C404	ECQB1H123JF	Р	0.012UF	J	50 V			PP	0.3UF	Н	400\
C405	ECUX1H102KBN	С	1000PF	K	50 V	C573	ECKD2H1O2KB5	С	1000PF	K	500\
C442	ECUX1H221KBN	С	220PF	K	50 V	C574	ECKD2H1O2KB5	c	1000PF	K	500\
		E	470UF	13	6.3V		ECUX1C474ZFX	C	0.47UF	Z	16\
	ECEAOJGE471							Č		Z	
	ECEA1CGE470	E	47UF		16V			С	0.47UF		16\
C461	ECEA1HGE330	Ε	33UF		50 V		ECUX1C474ZFX	С	0.47UF	Z	16\
C462	ECEA1HGE330	E	33UF		50 V	C580	ECEA1EGE101	E	100UF		25\
C40Z	LOLA INGESSO		3301								
C463	ECEA1HGE330	Ε	33UF		50 V	C581	ECQE2224KF	Ρ	0.22UF	K	200\
C464	ECEA1CGE330	Ε	33UF		16V	C582	ECUX1H103KBG	C	0.01UF	K	50\
C465	ECUX1H222KBN	C	2200PF	κ	50V	C583	ECUX1C105ZFW	c	1.OUF	Z	16\
								C	1.0UF	z	16\
C466	ECEA1CGE330	Ε	33UF		16V	C584	ECUX1C105ZFW	1		_	50\
2467	ECA 1 VEN330	Ε	33UF		35V	C599	ECEA1HGN100	Ε	10UF		501
2468	ECEA1CGE100	E	10UF		16V	C601	ECEA2AGE22O	E	22UF		100\
	ECEA1CGE470	E	47UF		16V	C603	ECEA2CGE22O	E	22UF		160\
	1			10				E	1UF		50\
C470	ECUX1H103KBG	С	0.01UF	K	50V	C604	ECEA1HGEO10				
C471	ECUX1H103KBG	C	0.01UF	K	50 V	C605	ECEA2EGE3R3	E	3.3UF		250\
C476	ECUX1H103KBG	С	0.01UF	K	50 V	C606	ECEA2GGE4R7	E	4.7UF		400\
0470	ECEA1AGE101	E	100UF		10V	C609	ECEA2CGE2R2	E	2.2UF		160\
C479						C610	ECEA2GGE4R7	E	4.7UF		400\
C480	ECEA1CGE471	E	470UF		16V			<u> </u>			
C482	ECEA1VGE4R7	Ε	4.7UF		35V	C634	ECUX1H272KBN	С	2700PF	K	50\
C483	ECQV1H124JM	Р	0.12UF	J	50 V	C635	ECUX1H103KBG	C	0.01UF	K	50\
C484	ECHU1H473JB9	Р	0.047UF	Ū	50V	C638	ECUX1H103KBG	С	0.01UF	K	50\
C 40 =	FOE A 1 HOTOOG	_	2200115		50 V	C660	ECEA1VGE470	E	47UF		35\
C485	ECEA1HGE222	Ε	2200UF					P		. 1	
C488	ECQV1J183JM	Р	0.018UF	J	63V	C661	ECQB1H562JF	٢	5600PF	J	50\
C490	ECA1EXS330	Ε	33UF		25V	C662	ECUX1H1O4ZFX	С	0.1UF	Z	50\
C491	ECEA1VGE222	F	2200UF		35V	C663	ECUX1H104ZFX	С	0.1UF	Z	50\
C491 C492	ECA1HFQ101	E	100UF		50V	C664	ECUX1H102JCX	C	1000PF	J	50\
					051		ECHYALIA OA 100		10005	.1	50
C497	ECEA1VGE101	E	100UF		35V	C665	ECUX1H121JCG ECUX1H102JCX	ر د	120PF 1000PF	ل ل	501
C498	ECEA1VGE101	Ε	100UF		35V	C666		C			
C501	ECUX1H47OJCG	C	47PF	J	50 V	C667	ECUX1H221JCG	C	220PF	J	50\
C502	ECUX1H103KBG	С	0.01UF	K	50 V	C668	ECUX1H123KBX	С	0.012UF	K	50\
C504	ECUX1H103KBG	c	0.01UF	K	50V	C672	ECA1VXS4R7	E	4.7UF		35\
0500	ECHY 1 H 1 COVEC		0.04115	к	50 V	C674	ECEA1VGE470	E	47UF		351
C506	ECUX1H103KBG	C	0.01UF	_		I I		E			63/
C507	ECEA1HGN4R7	Ε	4.7UF		50 V	C679	ECA1JFQ120	E	12UF		
C509	ECUX1H681JCX	С	680PF	J	50 V	C681	ECQE2335KF	P	3, 3UF	K	2001
C510	ECYX1H122JCX		1200PF	J	50 V	C685	ECKD3A221KBP	C	220PF	K	1K\
C511	ECEA1HGE4R7	E	4.7UF	•	50V	C686		С	220PF	K	1K\
	E 0.117 / 1.10 E 1.17 E 1.17		07055	12	FOV	0000	ECMP10H000HC	PP	2200PF	Н	1.2K\
C512	ECUX 1H27 1KBN	ł	270PF	K	50V	C690	ECWH12H222HS ECKD3D391JBP	C	390PF	J	2K\
	ECUX1H103KBG	C	0.01UF	K	50V			1			
C515	ECHU1H122GB5	P	1200PF	G '	50V	C693		С	470PF	K	50\
	ECUX1H151JCG	C	150PF	J	50V	C694	ECUX1H682KBG	С	6800PF	K	50\
C517	ECEA1HGE2R2	E	2.2UF		50V	C695	ECKD2H221KB5	С	220PF	K	500\
		_	0 0115		FOV	0000	ECOBARA CO JE	Ь	10000	J	50\
C518	ECEA1HGE2R2	E	2.2UF		50V	C696	ECQB1H102JF	_	1000PF	U	
C519	ECUX1H561JCX	C	560PF	Ų	50V	C697	ECEA1HGE470	E	47UF		50\
C520	ECEA1CGE102	Ε	1000UF		16V	C698	ECEA1HGE4R7	E	4.7UF		50\
	ECEAOJGE471	Ē	470UF		6.3V	C709	ECEA1HGN100	E	10UF		50\
C521	ECUX1H103KBG		0.01UF	κ	50V	C712		C	0.01UF	K	50\
	I CON III CONDU	_	3.0.0	• •		I [- · · -					
-522						1 1					
C522 C523	ECUX1H103KBG	С	0.01UF	Κ	50V 50V	C715 C718	ECEA2CGE4R7 ECUX1H103KBG	E C	4.7UF 0.01UF	K	160\ 50\

	Ref.No.	Part No.		Des	cription			Ref.No.	Part No.	Description E 47UF		1	
	C719	ECQE2103KF	Р	0.01UF	K	200V		C886	ECEA1HGE470	E.	47UF		50 V
i			P	0.01UF	K	200V	1	C887	ECA1VXS4R7	Ε	4.7UF		35 V
1	C752		c	0.01UF	K	50V		C888		Ε	10UF		100V
1	C754	ECEAOJGE471	E	470UF	,	6.3V		C889	ECA2DGE68OY	Ē	68UF		200V
	C755	ECEAOGE471	E	10UF		16V		C891	ECQE4103KF	P	0.01UF	Κ	400V
	C770	ECEA1HGE330	E	33UF		50 V		C892	ECKD3D151JBP	С	150PF	J	2KV
ł	C772	ECUX1C105ZFW	C	1.0UF	Z	16V		C893	ECUX1H104ZFX	c	0.1UF	Z	50V
1					2			1.	1	E	1UF	_	50 V
1	C773	ECEA1HGN4R7	Ε	4.7UF		50V	1		ECEA1HGEO10				
i	C774	ECA1HXSR47	E	0.47UF		50V		C896	ECUX1H103KBG	С	0.01UF	K	50V
	C775	ECUX1H103KBG	С	0.01UF	K	50 V		C901	ECUX1H22OJCN	С	22PF	J	50V
	C776		Ε	100UF		16V			ECEA1AGE101	E	100UF		10V
	C777	ECEA1VGE470	Ε	47UF		35 V		C903		С	0.01UF	K	50 V
	C799	ECEA1CGN470	E	47UF		16V		C904	ECUX1H103KBG	С	0.01UF	K	50 V
Λ	C8O1	ECQU2A105MVZ	PP	1.OUF	M	250V		C905	ECUX1H103KBG	С	0.01UF	K	50V
	C802	1	c	2200PF	М			C906	ECUX1H103KBG	С	0.01UF	K	50 V
Δ	C803	ECKDRS222ME	c	2200PF	М			C907	ECUX1H221KBN	С	220PF	K	50 V
	C805		PP	1.OUF	M	250V	1			c	15PF	J	50V
^{دی} ا	C814	,	PP	1.0UF	J	400V		4		c	15PF	Ĵ	50V
	1							C910		C	220PF	ĸ	50V
1	C815	ECQE4104JF	٢	0.1UF	J	400V	1	i .		3			
	C819	ECKD3A101KBP	C	100PF	K	1KV		C911	ECUX1H221KBN	С	220PF	Ķ	50V
	C820		С	0.022UF	Κ	50 V		C912	ECUX1H333KBX	С	0.033UF	K	50 V
1	C821	ECQE6473KF	P	0.047UF	K	600V			ECEA1CGE470	E	47UF		16V
1	C822	ECUX1H222KBN	C	2200PF	K	50 V			ECUX1H103KBG	С	0.01UF	K	50 V
l	C823	ECEA1HGE4R7	E	4.7UF		50V	1	C1004	ECUX1H103KBG	С	0.01UF	K	50 V
	C824		Ē	10UF		50 V				Р	1.OUF	J	50 V
	C825	ECEA1HGE3R3	E	3.3UF		50V		C1006	ECUX1H750JCG	С	75PF	J	50 V
	C827		c	680PF	K	50V				E	10UF		200V
	C828		E	47UF	'`	50V			ECUX1H103KBG	Ē	0.01UF	K	50V
	1		E	220UF		35V			ECKD2H102KB5	č	1000PF	K	500V
	C829		C		R.A	35 V			ECUX1H390JCG	~	39PF	J	50V 50V
1	C831	ECKDRS472ME		4700PF	M		İ	C1013	ECOX INS 900CG		3977	U	30 v
Δ	C832	ECKDRS472ME	С	4700PF	M			C1014	ECQV1474JZ	P	0.47UF	J	100V
_	C839	ECEAOJGE 102	E	1000UF		6.3V		C1015	TACCG681P200	C	680PF		200V
	C840		E	4.7UF		50 V		C1030	ECUX1H22OJCN	С	22PF	J	50 V
	C841	ECUX1C105ZFW	_	1.0UF	Z	16V				С	1.0UF	Z	16V
	C842	ECKD3D151JBP	c	150PF	Ĵ	2KV		1		c	5PF	c	50V
	0040	50544005470	_	47115		4.077		C1051	ECUX1H102KBN	С	1000PF	K	50V
1	C843		E	47UF		16V			t e			Γ.	
1			Ε	220UF		160V				E	220UF		6.3V
	C853	ECQE1224KF	P	0.22UF	K	100V	1		•	E	47UF		16V
	C861		E	1000UF		200V	1			С	5PF	С	50 V
	C862	ECOS2CA331AB	E	330UF		160V		C1061	ECUX1H102KBN	С	1000PF	K	50 V
	C863	ECEA1HGE222	Ε	2200UF		50 V				E	220UF		6.3V
ľ	C864	ECOS1EA562AB	Ε	5600UF		25V	,			C	1000PF	K	50 V
	ł		E	2200UF		16V		C1075	ECEA2CGEO10	Ε	1UF		160V
	ì		E	100UF		16V		C1077		þ	0.1UF	J	200V
	C867		E	1000UF		25V				С	0.01UF	K	50V
	C868	ECKD2H222KB5	С	2200PF	K	500V		C1102	ECEA1CGE470	Ε	47UF		16V
			E	100UF	1	50V				c	0.01UF	κ	50V
	_			220UF		50V 50V	1 1	-		C	0.01UF	K	50V
	I		E							P		J	50V 50V
		ECEA1AGE102	E	1000UF		10V				i .	1.0UF		
	C873	ECUX1H104ZFX	С	0.1UF	Z	50 V		C1106	ECUX1H910JC	С	91PF	J	50V
			С	0.1UF	Z	50V				E	10UF		200V
			ĮΕ	330UF		16V			ECUX1H103KBG		0.01UF	K	50V
1	C876	ECEA1HGE221	E	220UF		50V		C1110		С	1000PF	K	500 V
1	C877	ECUX1H104ZFX	С	0.1UF	Z	50V		C1113	ECUX1H39OJCG	С	39PF	J	50V
	C878		Ε	47UF		200V		C1114	ECQV1474JZ	Р	0.47UF	J	100V
	C879	ECEA1AGE102	Ε	1000UF		10V		C1115	TACCG681P200	С	680PF		200V
			c	120PF	Ú	50V				С	22PF	J	50 V
	_	ECUX1H102JCX		1000PF	Ú	50V			ECUX1C105ZFW	С	1.OUF	Z	16V
	1		C	220PF	J	50V				c	5PF	c	50V
	1		E	47UF	J	25 V				C	1000PF	ĸ	50 v
	C884	ECHY4HOOOKDY	С	22005	K	50V		C1150	ECEAOJKG221Q	E	220UF		6.3V
			1	2200PF		500V				E	47UF		16V
	C885	ECKD2H272KB5	<u></u>	2700PF	K	200V	1 .!	U 1 1 2 3	LULA IUNG4/U	_	7/01		104

	Ref.No.	Part No.		Desc	ription		Ref.No.	Part No.		Descri	ptior)
	C1160	ECUX 1HO5OCCN	С	5PF	С	50V	C1383	TACCJ103P200	C	0.01UF	_	200V
l k	01161	ECUX1H102KBN	c	1000PF	K	50V	C1385	ECUX1H103KBG	С	0.01UF	K	50 V
l k	01162	ECEAOJKG221Q	E	220UF		6.3V	C1386	TCUX2H101JCM	C	100PF	Ü	500 V
1 1		ECUX1H102KBN	c	1000PF	K	50 V	C1391	ECUX1H103KBG	c	0.01UF	K	50 V
	-	ECEA2CGEO10	Ē	1UF		160V	C1395	ECKD2H332KB5	С	3300PF	K	500V
3 1		ECQE2104JF	Р	0.1UF	J	200V	C1398	ECEA1HKGO10 ECEA1HKGO10	E	1UF 1UF		50 V 50 V
1 1			c	0.01UF	K	50V			C	1.OUF	Z	16V
1 1		ECEA1CGE470	E	47UF		16V	C1410	ECUX1C105ZFW	_	1.001	4	100
1 4		ECUX1H103KBG	С	0.01UF	K	50V						
	C1204	ECUX1H103KBG	С	0.01UF	K	50V		RESISTORS				
	C1205	ECQV1H105JM	Р	1.0UF	J	50 V	J052	ERDS2TCO	С	O DHM		1/4W
		ECUX1H82OJCG	c	82PF	J	50V	J053	ERDS2TCO	C	O OHM		1/4W
	01209	ECUX1H103KBG	Ċ	0.01UF	K	50V	J054	ERDS2TCO	c	O OHM		1/4W
	01210	ECKD2H102KB5	Č.	1000PF	ĸ	500V	J055	ERDS2TCO	c	O OHM		1/4W
	01213	ECUX1H39OJCG	c	39PF	J	50V	J101	ERDS2TCO	0000	O OHM		1/4W
						4001/		EDDCOTOO		O CHM		1/4W
		ECQV1474JZ	۲	0.47UF 680PF	J	100V 200V	J112 J114	ERDS2TCO ERDS2TCO	00000	O DHM		1/4W 1/4W
		TACCG681P200	C				J119		2	O OHM		1/4W
1 1	01230	ECUX1H22OJCN	C	22PF	J	50V	i 1	ERDS2TCO	2	O OHM		1/4W
	C1240	ECUX1C105ZFW	C	1.OUF	Z	16V	J120	ERDS2TCO				* .
	C1250	ECUX1H050CCN	С	5PF	С	50 V	U121	ERDS2TCO	C	O OHM		1/4W
	C1251	ECUX1H102KBN	С	1000PF	Κ	50 V	J122	ERDS2TCO	С	O OHM		1/4W
	C1252		E	220UF		6.3V	J123	ERDS2TCO	0 0 0	O OHM		1/4W
1 1	C1259	ECEA1CKG470	Ε	47UF		16 V	U130	ERDS2TCO	c	O OHM		1/4W
	C1260	ECUX 1HO5OCCN	c	5PF	С	50 V	J131	ERDS2TCO	С	O OHM		1/4W
		ECUX1H102KBN	c	1000PF	ĸ	50 V	J132	ERDS2TCO	С	O OHM		1/4W
			L			0.01/	1400	EDDCOTOO		O OHM		1/4W
		ECEAOJKG221Q	E	220UF		6.3V	J133	ERDS2TCO	0000	O OHM		1/4W 1/4W
	C1268	ECUX1H102KBN	С	1000PF	K	50V	J134	ERDS2TCO	5	O DHM		1/4W
		ECEA2CGEO10	E	1UF		160V	J135	ERDS2TCO	Ľ	-		1/4W
	C1277	COGLE TO-OT	Ρ	0.1UF	J	200V	U136	ERDS2TCO	C	O OHM		
l ľ	C1285	ECUX1H103KBG	С	0.01UF	K	50 V	J138	ERDS2TCO	С	O DHM		1/4W
	C1301	ECEA1HGE100	E	10UF		50 V	J147	ERDS2TCO	С	O OHM		1/4W
		1	c	0.01UF	K	50V	J149	ERDS2TCO	С	O OHM		1/4W
		ECEA1CGE101	E	100UF	- 15	16V	J153	ERDS2TCO	C	O OHM		1/4W
		ECEATCGE 101	E	1000JF		16V	J200	ERJ8GCYOROO	М	O OHM		1/8W
			P	0.47UF	J	50V	J201	ERD25TCO	С	O OHM		1/4W
			ŀ									. / 0.1.
K			С	1.OUF	Z	16V	J201	ERJ8GCYOROO	М	O OHM		1/8W
	C1307	ECUX1H100DCN	С	10PF	D	50 V	J202	ERD25TCO	С	O OHM		1/4W
1 (C1308	ECUX1H103KBG	С	0.01UF	K	50 V	J202	ERJ8GCYOROO	М	O OHM		1/8W
} k	C1309	ECUX1H102KBN	C	1000PF	K	50 V	J203	ERD25TCO	C	O OHM		1/4W
l K	C1310	ECEA2CGE470	Ε	47UF		160V	J203	ERJ8GCYOROO	M	O OHM		1/8W
	C1311	ECUX1H103KBG	С	0.01UF	Κ	50 V	J204	ERD25TCO	С	O OHM		1/4W
I 1			C	1.0UF	Z	16V	J204	ERJ8GCYOROO	М	O OHM		1/8W
			E	47UF	_	16V	J205	ERD25TCO	С	O OHM		1/4W
			C	0.01UF	K	50V	J205	1	М	O DHM		1/8W
		ECUX1H103KBG	Ċ	0.01UF	K	50V	J206	ERD25TCO	С	O OHM		1/4W
							,	ED 100011000		0.01		# /ou
			С	0.01UF	K	50V	J206		М	O OHM		1/8W
			E	10UF		50V	U207	ERJ8GCYOROO	M	O OHM		1/8W
			С	22PF	J	50V	J208	ERJ8GCYOROO	М	O DHM		1/8W
			С	22PF	J	50V	1	ERJ8GCYOROO	M	O OHM		1/8W
	C1322	ECUX1H22OJCN	С	22PF	J	50V	J210	ERD25TCO	С	O OHM		1/4W
	31323	ECEA1AGE101	Ε	100UF		10V	J210	ERJ8GCYOROO	M	O OHM		1/8W
1 1			C	22PF	J	50V	J211	ERJ8GCYOROO	М	O OHM		1/8W
1 1			E	100UF	-	16V	J212	ERD25TCO	c	O OHM		1/4W
		ECUX1H223KBX	C	0.022UF	K	50V	J212	i	M	O OHM		1/8W
			C	100PF	Ĵ	50V	J213	i	М	O OHM		1/8W
			_	- - -	_	F 6		ED 10003/0200	D.C.	0.00		4 /05/
			С	6PF	D	50V	J214		M	O OHM		1/8W 1/8W
			C	100PF	J	50V	1 1		M	O OHM		1/8W 1/4W
			C	1000PF	K	50V	1	ļ	C	O OHM		
į ķ			C	1000PF	K	50V	J216		M C	O OHM O OHM		1/8W 1/4W
دا ا	- 1352	TACCG102P200	C	1000PF		200V	J217	ERD25TCO	Ĭ			1/ -7 N
			1									
		ECUX1H103KBG	C	0.01UF	κ	50V	J217	ERJ8GCYOROO	M	о онм		1/8W 1/8W

Ref.No	. Part No.		Descript	ion	Ref.No.	Part No.		Descript	
J219	ERD25TCO	С	O OHM	1/4W	J401	ERJ8GCYOROO	М	O DHM	1/8W
J219	ERJ8GCYOROO	М	O OHM	1/8W	J402	ERJ8GCYOROO	јм	O DHM	1/8W
J220	ERJ8GCYOROO	М	O OHM	1/8W	J403	ERJ8GCYOROO	М	O OHM	1/8W
1			O OHM	1/4W	J404	ERJ8GCYOROO	М	O OHM	1/8W
J221	ERD25TCO	C	-						* .
J221	ERJ8GCYOROO	М	O OHM	1/8W	J405	ERJ8GCYOROO	M	O OHM	1/8W
J222	ERD25TCO	С	O OHM	1/4W	J406	ERJ8GCYOROO	м	O OHM	1/8W
J222	ERJ8GCYOROO	М	O OHM	1/8W	J407	ERJ8GCYOROO	М	O OHM	1/8W
1				1/4W	J408	ERJ8GCYOROO	м	O OHM	1/8W
J223	ERD25TCO	С				Į.	- 1		
J223	ERJ8GCYOROO	M	O OHM	1/8W	J409	ERJ8GCYOROO	М	O OHM	1/8W
J224	ERJ8GCYOROO	М	O OHM	1/8W	J410	ERJ8GCYOROO	М	O OHM	1/8W
J225	ERD25TCO	С	о онм	1/4W	J411	ERJ8GCYOROO	М	O OHM	1/8W
1		1		1/8W		ERJ8GCYOROO	М	O OHM	1/8W
J225	ERJ8GCYOROO	М	O OHM						
J226	ERJ8GCYOROO	М	O OHM	1/8W	1	ERJ8GCYOROO	M	O OHM	1/8W
J229	ERD25TCO	С	O OHM	1/4W	J414	ERJ8GCYOROO	М	O DHM	1/8W
J230	ERD25TCO	С	O OHM	1/4W	J415	ERJ8GCYOROO	М	O OHM	1/8W
1004	EDDOFTOO		0.01484	1/4W	J417	ERJ8GCYOROO	М	о онм	1/8W
J231	ERD25TCO	0000	O OHM			1	1		* .
J232	ERD25TCO	C	O OHM	1/4W		ERJ8GCYOROO	М	O OHM	1/8W
J233	ERD25TCO	C	O OHM	1/4W	J419	ERJ8GCYOROO	М	O OHM	1/8W
J234	ERD25TCO	lc.	O OHM	1/4W	J420	ERJ8GCYOROO	м	O OHM	1/8W
		Š			_				1/8W
J235	ERD25TCO	C	O OHM	1/4W	J421	ERJ8GCYOROO	M	O OHM	1/8W
J236	ERD25TCO	c	O OHM	1/4W	J422	ERJ8GCYOROO	М	O OHM	1/8W
J237	ERD25TCO	c	O OHM	1/4W	1	ERJ8GCYOROO	м	O OHM	1/8W
		Ĕ		1/4W		ERJ8GCYOROO	м	O DHM	1/8W
J238	ERD25TCO	0000	O OHM	· · · · · · · · · · · · · · · · · · ·	t t		1		
J239	ERD25TCO	C	O DHM	1/4W		ERJ8GCYOROO	М	O OHM	1/8W
J240	ERD25TCO	c	O OHM	1/4W	J426	ERJ6GEYOROO	М	O OHM	1/10W
1244	EDDOETCO		о онм	1/4W	J427	ERJ8GCYOROO	м	O OHM	1/8W
J241	ERD25TCO	0000			l l	1			
J242	ERD25TCO	C	O OHM	1/4W		ERJ8GCYOROO	М	O OHM	1/8W
J243	ERD25TCO	c	O OHM	1/4W	J429	ERJ8GCYOROO	М	O OHM	1/8W
J244	ERD25TCO	Ċ	O OHM	1/4W	1	ERJ8GCYOROO	М	O DHM	1/8W
I .					i		i	-	1/8W
J246	ERD25TCO	С	O OHM	1/4W	J431	ERJ8GCYOROO	М	O OHM	1/8W
J247	ERD25TCO	c	O OHM	1/4W	J432	ERJ8GCYOROO	М	O OHM	1/8W
J248	ERD25TCO	000	O DHM	1/4W	J433	ERJ8GCYOROO	M	O OHM	1/8W
		2		1/4W		ERJ8GCYOROO	М	O OHM	1/8W
J250	ERD25TCO		O DHM						
J250	ERJ6GEYOROO	М	O DHM	1/10W	J435	ERJ8GCYOROO	M	O OHM	1/8W
J251	ERD25TCO	c	O OHM	1/4W	J436	ERJ8GCYOROO	М	OOHM	1/8W
J251	ERJ6GEYOROO	м	о онм	1/10W	J437	ERJ8GCYOROO	м	O DHM	1/8W
1									
J252	ERD25TCO	C	O DHM	1/4W		ERJ8GCYOROO	М	O DHM	1/8W
J252	ERJ6GEYOROO	M	O DHM	1/10W	J439	ERJ8GCYOROO	М	O OHM	1/8W
J253	ERJ6GEYOROO	м	O OHM	1/10W	J440	ERJ8GCYOROO	М	O OHM	1/8W
J255	ERD25TCO	c	O DHM	1/4W		ERJ8GCYOROO	М	O OHM	1/8W
J258	ERD25TCO	C	O OHM	1/4W	1	ERJ8GCYOROO	M	O DHM	1/8W
J260	ERD25TCO	C	O OHM	1/4W		ERJ8GCYOROO	М	O DHM	1/8W
J261	ERD25TCO	C	O OHM	1/4W		ERJ8GCYOROO	М	O OHM	1/8W
J264	ERD25TCO	C	O OHM	1/4W	J445	ERJ8GCYOROO	M	O OHM	1/8W
J265	ERD25TCO	00000	O DHM	1/4W		ERJ8GCYOROO	М	O DHM	1/8W
									. /
J268	ERD25TCO	C	O DHM	1/4W	J447	ERJ8GCYOROO	М	O OHM	1/8W
J271	ERD25TCO	c	O DHM	1/4W	J448	ERJ8GCYOROO	M	O OHM	1/8W
J272	ERD25TCO	آم.	O DHM	1/4W		ERJ8GCYOROO	М	O OHM	1/8W
		00000					1		1/8W
J273	ERD25TCO	C	O DHM	1/4W		ERJ8GCYOROO	М		
J274	ERD25TCO	C	O OHM	1/4W	J451	ERJ6GEYOROO	M	O OHM	1/10W
J276	ERD25TCO	c	O OHM	1/4W	J452	ERJ6GEYOROO	м	O OHM	1/10W
	i	č	O DHM	1/4W	1	ERJ6GEYOROO	М	O OHM	1/10W
J280	ERD25TCO	_					1		
J301	ERD25TCO	C	OOHM	1/4W	1 1	ERJ6GEYOROO	М	O OHM	1/10W
J302	ERD25TCO	C	O OHM	1/4W		ERJ6GEYOROO	M	O OHM	1/10W
1303	ERD25TCO	0000	O OHM	1/4W	J460	ERJ6GEYOROO	М	O OHM	1/10W
1204	EDDOETCO		O CHM	4 / 414	J461	ERJ6GEYOROO	lv.	O OHM	1/10W
J304	ERD25TCO		O OHM	1/4W			M		
J307	ERD25TCO	C	OOHM	1/4W		ERJ6GEYOROO	М	O DHM	1/10W
J311	ERD25TCO	C	O OHM	1/4W	J463	ERJ6GEYOROO	M	O OHM	1/10W
J313	ERD25TCO	C	O OHM	1/4W		ERJ6GEYOROO	М	O OHM	1/10W
J318	ERD25TCO	00000	O DHM	1/4W	1	ERJ6GEYOROO	М	O OHM	1/10W
- · •									
	ERD25TCO	С	O OHM	1/4W	J467	ERJ6GEYOROO	М	O OHM	1/10W
J322	ERDZSTCO	c	0 011111	1/4W	0467	ENOUGE TO NOO	1.7	O DHM	1/10W

Ref.No.	Part No.		Descri	ptio	n	Ref.No.			Descri		
J470	ERJ6GEYOROO	M	O OHM		1/10W	R208	ERJ6GEYJ472	М	4.7K OHM	J	1/10W
J471	ERJ6GEYOROO	М	O OHM		1/10W	R212	ERJ6GEYJ182	M	1.8K OHM	J	1/10W
J472	ERJ6GEYOROO	М	O OHM		1/10W	R214	ERJ6GEYJ472	М	4.7K OHM	J	1/10W
1 1	ERJ6GEYOROO	М	O OHM		1/10W	R215	ERJ6GEYJ102	М	1K OHM	J	1/10W
	ERJ6GEYOROO	М	O OHM		1/10W	R217	ERJ6GEYJ222	M	2.2K OHM	J	1/10W
047.4	EROGGETOROG		0 0		.,			ŀ			
J475	ERJ6GEYOROO	М	O OHM		1/10W	R218	ERJ6GEYJ562	M	5.6K OHM	J	1/10W
	ERJ6GEYOROO	м	O DHM		1/10W	R219	ERJ12YJ391	М	390 OHM	J	1/2W
	ERJ6GEYOROO	М	O OHM		1/10W	R220	ERDS1FJ331	C	330 OHM	Ū	1/2W
		М	O OHM		1/10W	R221	ERJ6GEYJ222	м	2.2K OHM	Ū	1/10W
	ERJ6GEYOROO				1/10W	R223	ERJ6GEYJ102	М	1K OHM	Ű	1/10W
J480	ERJ6GEYOROO	М	O OHM		1/ 10w	R223	EROBGETOTOZ	"	TK OTH	Ü	17 10W
J481	ERJ6GEYOROO	М	O OHM		1/10W	R224	ERJ6ENF2702	м	27K OHM	F	1/10W
		- 1			1/10W	R225	ERJ6ENF2433	М	243K OHM	F	1/10W
	ERJ6GEYOROO	М				1 !	1	М		Ü	1/10W
	ERJ6GEYOROO	М	O OHM		1/10W	R239	ERJ6GEYJ101	1	100 DHM		
J485	ERJ6GEYOROO	М	O OHM		1/10W	R241	ERJ6GEYJ222	М	2.2K OHM	U	1/10W
J486	ERJ6GEYOROO	М	O OHM		1/10W	R242	ERJ6GEYJ103	М	10K OHM	J	1/10W
					,			1.			
	ERJ6GEYOROO	М	O OHM		1/10W	R244	ERJ6GEYJ222	М	2.2K OHM	J	1/10W
J488	ERJ6GEYOROO	М	O OHM		1/10W	R245	ERJ6GEYJ101	М	100 OHM	J	1/10W
	ERJ6GEYOROO	М	O OHM		1/10W	R247	ERJ6GEYJ101	М	100 OHM	J	1/10W
	ERJ6GEYOROO	М	O OHM		1/10W	R248	ERJ6GEYJ101	М	100 OHM	J	1/10W
	ERJ6GEYOROO	М	O OHM		1/10W	R249	ERJ6GEYJ101	М	100 OHM	J	1/10W
0431	ENGUAL FORCO	["	C 0, 11.1		.,	1					
J492	ERJ6GEYOROO	м	о онм		1/10W	R250	ERJ6GEYJ392	м	3.9K OHM	J	1/10W
	ERJ6GEYOROO	М	O OHM		1/10W	R251	ERJ6GEYJ562	М	5.6K OHM	J	1/10W
1	ERJ6GEYOROO	М	O OHM		1/10W	R252	ERJ6GEYJ104	М	100K DHM	Ĵ	1/10W
			O DHM		1/10W	R253	ERJ6GEYJ104	М	100K DHM	J	1/10W
	ERJ8GCYOROO	М				1 1		lc'	470 OHM	Ĵ	1/4W
J502	ERJ8GCYOROO	М	O OHM		1/8W	R260	ERDS2TJ471	\vdash	4/U U⊓I¥I	U	1/ ↔₩
			O OUM		1/8W	R261	ERDS2TJ471	c	470 OHM	J	1/4W
_	ERJ8GCYOROO	М	O OHM			1 1		М			1/4W 1/10W
_	ERJ8GCYOROO	M	O OHM		1/8W	R262	ERJ6GEYJ103		10K DHM	J.	
	ERJ8GCYOROO	M	O OHM		1/8W	R263	ERJ6GEYJ103	M	10K DHM	Ų	1/10W
J508	ERJ8GCYOROO	М	O DHM		1/8W	R264	ERJ6GEYJ101	М	100 OHM	ن	1/10W
J509	ERJ8GCYOROO	М	O OHM		1/8W	R265	ERJ6GEYJ101	M	100 OHM	J	1/10W
					4 /00		EDDCOT 1474		470 014		4 / 454
	ERJ8GCYOROO	М	O OHM		1/8W	R266	ERDS2TJ471	C	470 OHM	J	1/4W
J511	ERJ8GCYOROO	М	O OHM		1/8W	R267	ERDS2TJ471	С	470 OHM	J	1/4W
J512	ERJ8GCYOROO	М	O OHM		1/8W	R268	ERJ6GEYJ103	М	10K OHM	Ų	1/10W
	ERJ8GCYOROO	М	O OHM		1/8W	R269	ERJ6GEYJ103	М	10K OHM	J	1/10W
	ERJ8GCYOROO	М	O OHM		1/8W	R270	ERJ6GEYJ101	M	100 OHM	J	1/10W
J522	ERJ8GCYOROO	М	O DHM		1/8W	R271	ERJ6GEYJ101	М	100 DHM	J	1/10W
	ERJ8GCYOROO	М	O OHM		1/8W	R279	ERJ8GCYJ184	М	180K OHM	J	1/8W
I .	ERJ8GCYOROO	м	O OHM		1/8W	R280	ERJ12YJ184	М	180K OHM	J	1/2W
	ERJ8GCYOROO	М	O OHM		1/8W	R281	ERJ12YJ184	М	180K DHM	J	1/2W
-	ERJ8GCYOROO	м	O DHM		1/8W	R282	ERJ12YJ184	м	180K DHM	Ĵ	1/2W
5521	_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	('	C 0/1///		.,,			1			•
J870	ERJ8GCYOROO	м	о онм		1/8W	R283	ERJ12YJ184	М	180K DHM	J	1/2W
	ERDS2TCO	С	ODHM		1/4W	R285	ERDS1FJ394	c	390K DHM	Ū	1/2W
		C	O DHM		1/4W	R286	ERJ6ENF 1822	м	18.2K OHM	F	1/10W
1	ERDS2TCO					1 1	ERJ6GEYJ474	м	470K OHM	J	1/10W
1	ERD25TCO	С	O OHM		1/4W	R287 R288		S	5.6M OHM	J	1/2W
J 1302	ERD25TCO	С	O OHM		1/4W	K288	ERC12GJ565	3	J. DIVI UNIVI	J	1 / ∠ W
14.000	EDDCOTOO	_	O OLINA		1/4W	D200	ERC12GJ565	s	5.6M OHM	J	1/2W
	ERDS2TCO	C	O OHM		* .	R289	1	i		-	
	ERDS2TCO	C	O OHM	_	1/4W	R290	ERJ6ENF8062	М	80.6K OHM	F	1/10W
R101	ERJ6ENF6042	M	60.4K OHM	F	1/10W	R291	ERJ6ENF6981	М	6.98K OHM	F	1/10W
R102	ERJ6ENF6982	M	69.8K OHM	F	1/10W	R292	ERJ6ENF5902	М	59K OHM	F	1/10W
	ERJ6ENF3742	M	37.4K OHM	F	1/10W	R293	ERJ6ENF1132	M	11.3K OHM	F	1/10W
R 105	ERJ6GEYJ102	М	1K OHM	J	1/10W	R294	ERC12GJ565	s	5.6M OHM	Ų	1/2W
	ERJ6GEYJ681	M	680 DHM	J	1/10W	R295	ERDS1FJ103	C	10K OHM	J	1/2W
	ERJ6ENF1741	М	1.74K OHM	F	1/10W	R299	ERJ6GEYJ152	М	1.5K OHM	J	1/10W
	ERJ6ENF3321	M	3.32K OHM	F	1/10W	R301	ERJ6GEYJ472	M	4.7K OHM	J	1/10W
1	ERJ6GEYJ272	М	2.7K OHM	Ü	1/10W	R302	ERJ6GEYJ152	м	1.5K OHM	J	1/10W
	2.1000212			-			_				
D 4 4 0	ERJ6GEYJ272	M	2.7K OHM	J	1/10W	R303	ERDS1FJ104	С	100K OHM	J	1/2W
K114	ERDS2TJ2R7	С	2.7 OHM	Ű	1/4W	R304	ERDS1FJ273	C	27K OHM	Ú	1/2W
		M	4.7K OHM	Ĵ	1/10W	R305	ERJ6GEYJ103	М	10K OHM	Ū	1/10W
R114	ED ICCEVIATO		7./K UIN	-	•	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
R 1 1 4 R 2 0 3	ERJ6GEYJ472		A 7K OHM	, 1	1/10W	おろした	FRUSGEVITOR	IV1	10K DHM	J	1/10W
R114 R203 R204	ERJ6GEYJ472	M	4.7K OHM	J	1/10W	R306	ERJ6GEYJ103	М	10K OHM 4 7K OHM	U U	1/10W 1/10W
R114 R203 R204			4.7K OHM 10M OHM	J K	1/10W 1/10W	R306 R307	ERJ6GEYJ103 ERJ6GEYJ472	M	10K DHM 4.7K DHM	J	1/10W 1/10W
R 1 1 4 R 2 0 3 R 2 0 4 R 2 0 5	ERJ6GEYJ472	M									

Ref.No.	Part No.		Descri	ptio	n	Ref.No	5.	Part No.	1	Descr	iptic) n
R312 R314 R315 R316 R317	ERJ6ENF5621 EROS2CKF2211 EROS2CKF1502 ERG1SJ104 ERG1SJ104	N N N N N	5.62K OHM 2.21K OHM 15K OHM 100K OHM 100K OHM	F F J J	1/10W 1/4W 1/4W 1W 1W	R388 R389 R390 R391 R400	EE	RJ6ENF5362 RJ6ENF2322 RJ6GEYJ123 RJ6GEYJ562 RJ6GEYJ332	M M M M M M	53.6K OHM 23.2K OHM 12K OHM 5.6K OHM 3.3K OHM	F J J J	1/10W 1/10W 1/10W 1/10W 1/10W
R318 R318A R319 R321 R322	ERDS2TJ434 ERDS2TJ434 ERJ6GEYJ821 ERDS1FJ103 ERDS2TJ102	००इ००	430K OHM 430K OHM 820 OHM 10K OHM 1K OHM	J J J J	1/4W 1/4W 1/10W 1/2W 1/4W	R401 R402 R403 R420 R421	E	RJ6GEYJ272 RJ6GEYJ472 RJ6ENF3013 RJ6ENF8661 RJ6ENF5110	2222	2.7K OHM 4.7K OHM 301K OHM 8.66K OHM 511 OHM	J J F F F	1/10W 1/10W 1/10W 1/10W 1/10W
R323 R324 R325 R326 R327	ERQ14AJ101 ERQ14AJ181 ERDS2TJ222 ERDS2TJ333 ERDS1FJ474	F F C C C	100 OHM 180 OHM 2.2K OHM 33K OHM 470K OHM)))))	1/4W 1/4W 1/4W 1/4W 1/2W	R440 R441 R442 R444 R445	E E	RJ6GEYJ333 RJ6GEYJ182 RJ6GEYOROO RJ6GEYJ472 RJ6GEYJ102	2222	33K OHM 1.8K OHM O OHM 4.7K OHM 1K OHM	0 0	1/10W 1/10W 1/10W 1/10W 1/10W
R328 R329 R330 R331 R332	ERJ6ENF1871	C C M M M	560K OHM 470K OHM 100K OHM 1.87K OHM 40.2K OHM	J J F F	1/2W 1/2W 1/10W 1/10W 1/10W	R446 R447 R448 R451 R456	E	RDS1FJ391 RJ6GEYJ153 RJ6GEYJ822 RJ6GEYJ472 RJ6GEYJ222	C & & & & &	390 OHM 15K OHM 8.2K OHM 4.7K OHM 2.2K OHM		1/2W 1/10W 1/10W 1/10W 1/10W
R333 R334 R335 R336 R337	ERJ6GEYJ102	22200	137K OHM 1K OHM 2.21K OHM 1.2M OHM 1K OHM	F J F J J	1/10W 1/10W 1/10W 1/2W 1/4W	R457 R458 R459 R460 R461	E E E	RJ6GEYJ222 RJ6GEYJ822 RJ6ENF1583 RD25FJ101K RJ6ENF1101	2 2 2 C 2	2.2K DHM 8.2K DHM 158K DHM 100 DHM 1.1K DHM	J F J F	1/10W 1/10W 1/10W 1/4W 1/10W
R338 R339 R340 R341 R342	ERDS2TJ102 ERJ6GEYJ123 ERJ6GEYOROO	2022	7.5K OHM 1K OHM 12K OHM 0 OHM 680 OHM	F J J	1/10W 1/4W 1/10W 1/10W 1/10W	R462 R463 R464 R465 R466	E	RJ6ENF5621 RJ6ENF3321 RJ6ENF2211 RD25FJ222K RJ6ENF3651	2520 2	5.62K DHM 3.32K DHM 2.21K DHM 2.2K DHM 3.65K DHM	F F J F	1/10W 1/10W 1/10W 1/4W 1/10W
R343 R344 R345 R349 R350	ERJ6GEYJ332 ERJ6GEYJ104 ERJ6ENF1002	2222	2.7K OHM 3.3K OHM 100K OHM 10K OHM 13.7K OHM	J J F F	1/10W 1/10W 1/10W 1/10W 1/10W	R467 R468 R469 R470 R471	EE	RJ6ENF2741 RJ6ENF7872 RJ6ENF2102 RJ6GEYJ472 RJ6GEYJ152	2222	2.74K OHM 78.7K OHM 21K OHM 4.7K OHM 1.5K OHM	F F J J	1/10W 1/10W 1/10W 1/10W 1/10W
R351 R352 R353 R354 R356	ERJ6GEYJ123		100K DHM 100K DHM 5.9K DHM 12K DHM 56K DHM	J J F J J	1/2W 1/2W 1/10W 1/10W 1/10W	R472 R473 R474 R475 R476	E	RJ6GEYJ682 RJ6GEYJ122 RJ6GEYJ333 RJ6ENF4021 RJ6GEYJ153	2 2 2 2 <u>2</u>	6.8K OHM 1.2K OHM 33K OHM 4.02K OHM 15K OHM	ン ン フ ト フ	1/10W 1/10W 1/10W 1/10W 1/10W
R357 R361 R362 R363 R368	ERJ6GEYJ392 ERDS1FJ151		100K DHM 5.6K DHM 3.9K DHM 150 DHM 10K DHM	7 7 7	1/2W 1/10W 1/10W 1/2W 1/10W	R477 R478 R479 R480 R481	E E	RJ6GEYJ103 RJ6ENF2001 RJ6ENF1002 RQ14AJ330 RJ6GEYJ103	5 5 5 F 5	10K DHM 2K DHM 10K DHM 33 DHM 10K DHM	フ FFJJ	1/10W 1/10W 1/10W 1/4W 1/10W
R369 R371 R372 R373 R374	ERJ6GEYJ682 ERJ6GEYJ222 ERJ6ENF6811	M M M M M M	10K DHM 6.8K DHM 2.2K DHM 6.81K DHM 6.8K DHM	J J J F J	1/10W 1/10W 1/10W 1/10W 1/10W	R482 R483 R484 R485 R486	E	RJ6ENF 1002 RJ6ENF 1202 RJ6ENF 7502 RQ1CJP4R7S RDS1FJ751	225 F O	10K OHM 12K OHM 75K OHM 4.7 OHM 750 OHM	F F J J	1/10W 1/10W 1/10W 1W 1/2W
R375 R376 R377 R378 R379	ERJ6ENF2001 ERDS2TJ510 ERJ6ENF1001		2.2K OHM 2K OHM 51 OHM 1K OHM 51 OHM	りょりょう	1/10W 1/10W 1/4W 1/10W 1/4W	R487 R488 R489 R490 R491	E I	RDS1FJ751 RDS1FJ751 RJ6ENF1001 RJ6ENF3921 RJ6ENF2261	00 <u>×</u> ×	750 OHM 750 OHM 1K OHM 3.92K OHM 2.26K OHM	JJFFF	1/2W 1/2W 1/10W 1/10W 1/10W
R380 R381 R382 R383 R384	ERJ6ENF8251 ERJ6ENF1212 ERJ6ENF4021		120 OHM 8.25K OHM 12.1K OHM 4.02K OHM 1.96K OHM	J F F F	1/4W 1/10W 1/10W 1/10W 1/10W	R492 R493 R494 R495 R496	E I	RU6GEYJ470 RX2SG1R0 RD25FJ3R3K RD25FJ3R3K RG3FJ680	X X O O X	47 OHM 1 OHM 3.3 OHM 3.3 OHM 68 OHM	70777	1/10W 2W 1/4W 1/4W 3W
R385	ERJ6GEYJ332	M	3.3K OHM 2.7K OHM	J	1/10W 1/10W	R497 R498	ΕI	RDS2TJ332 RG3FJ470	CM	3.3K OHM 47 OHM	J	1/4W 3W

RESIDENTIFY No. A. A. A. A. A. A. A.	Ref.No.	Part No.		D	escri	ptio		Ref.No.			Descri		
READER READER VALUE March Ma	R499	ERQ14AJ1RO	F	1 (MHC	J				Γ.		_	3 W
REGOS ENJECT/123 M 12X CHM J 1/10W REGOS ERISISAS M 93X CHM J 1/2W REGOS ENJECT/154 M 550 DHM J 1/2W REGOS ENJECT/154 M 550 DHM J 1/10W REGOS ENJECT/154 M 550 DHM J 1/10W REGOS ENJECT/154 M 550 DHM J 1/10W REGOS ENJECT/154 M 150 CHM J 1/2W REGOS ENJECT/154 M 5.16K CHM J 1/10W REGOS ENJECT/154 M 5.16K CHM J 1/10W REGOS ENJECT/154 M 2.2K CHM J 1/10W REGOS ENJECT/154 M 4.22K CHM J 1/10W REGOS ENJECT/154 M 5.16K CHM J 1/10W REGOS ENJECT/154 M 5.16K CHM J 1/10W REGOS ENJECT/154 M 4.22K CHM J 1/10W REGOS ENJECT/154 M 5.16K CHM F 1/10W REGOS ENJECT/154 M 1.8X CHM J 1/10W REGOS ENJECT/154 M 1.8X CHM J 1/10W REGOS ENJECT/154 M 1.8X CHM J 1/10W REGOS ENJECT/154 M 1.0X CHM F 1/10W REGOS ENJECT/154 M 1.0X CHM F 1/10W REGOS ENJECT/154 M 1.0X CHM J 1/10W REGOS ENJECT/154 M 1.0X CHM J 1/10W REGOS ENJECT/154 M 1.0X CHM J 1/10W REGOS ENJECT/154 M 1.0X CHM J 1/10W REGOS ENJECT/154 M 1.0X CHM J 1/10W REGOS ENJECT/154 M 1.0X CHM J 1/10W REGOS ENJECT/154 M 1.0X CHM J 1/10W REGOS ENJECT/154 M 1.0X CHM J 1/10W REGOS ENJECT/154 M 1.0X CHM J 1/10W REGOS ENJECT/154 M 1.0X CHM J 1/10W REGOS ENJECT/154 M 1.0X CHM J 1/10W REGOS ENJECT/155 M 1.0X CHM J 1/10W	I	ERJ6GEYJ472	М	4.7K (MHC	J	1/10W	R608	ERG1SJ104	M	100K DHM	J	1 W
REOS E RUSECVUSTS M 15K OHM J 1/5W RE10 ERUSECVUSTS M 15K OHM J 1/10W RE11 ERUSECVUSTS M 15K OHM J 1/10W RE11 ERUSECVUSTS M 1.7K OHM J 1/10W RE20 ERUSECVUSTS M 1.7K OHM J 1/10W RE20 ERUSECVUSTS M 1.7K OHM J 1/10W RE20 ERUSECVUSTS M 1.7K OHM J 1/10W RE20 ERUSECVUSTS M 1.7K OHM J 1/10W RE20 ERUSECVUSTS M 1.7K OHM J 1/10W RE20 ERUSECVUSTS M 1.7K OHM J 1/10W RE20 ERUSECVUSTS M 1.7K OHM J 1/10W RE20 ERUSECVUSTS M 1.7K OHM F 1/10W RE20 ERUSECVUSTS M 1.7K OHM J 1/1	1 1	ì	м			J	1/10W	R609	ERG1SJ823	M	82K OHM	J	1 W
REOS ERJGGEYUSS M		1	1 -					R610	ERJ12YJ104	М	100K DHM	Ú	1/2W
RSO7 ENJGGEYU472 M 4.7K OHM J 1/10W RS21 ERJGGEYU104 M 100K OHM J 1/10W RS21 ERJGGEYU273 M 5.6K OHM J 1/10W RS21 ERJGGEYU273 M 5.6K OHM J 1/10W RS21 ERJGGEYU273 M 4.2K OHM J 1/10W RS21 ERJGGEYU273 M 4.2K OHM J 1/10W RS21 ERJGGEYU373 M 0.0 OHM J 1/10W RS23 ERJGGEYU373 M 0.0 OHM J 1/10W RS23 ERJGGEYU373 M 0.0 OHM J 1/10W RS23 ERJGGEYU373 M 0.0 OHM J 1/10W RS23 ERJGGEYU373 M 0.0 OHM J 1/10W RS23 ERJGGEYU373 M 0.0 OHM J 1/10W RS23 ERJGGEYU373 M 0.0 OHM J 1/10W RS23 ERJGGEYU373 M 0.0 OHM J 1/10W RS23 ERJGGEYU373 M 0.0 OHM J 1/10W RS23 ERJGGEYU373 M 0.0 OHM J 1/10W RS23 ERJGGEYU373 M 0.0 OHM J 1/10W RS23 ERJGGEYU373 M 0.0 OHM J 1/10W RS23 ERJGGEYU373 M 0.0 OHM J 1/10W RS23 ERJGG		1				-							1/2W
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RS43 ERJBGCYJ4563 M 13.5	R542	ERJ8ENF3241	М	3.24K	ОНМ	F	1/8W	R653	ERJ6GEYJ102	м		-	1/10W
RS44			í ·			J	1/8W	R656	ERJ6GEYJ102	М	1K OHM	J	1/10W
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R704	ERJ6GEYJ222	М	2.2K OHM	J	1/10W	R838	ERJ6GEYJ102	М	1K OHM	l J	1/10W
R706	ERJ6GEYJ221	М	220 OHM	J	1/10W	R839	ERJ6GEYJ102	M	1K OHM	l J	1/10W
1	ERJ6GEYJ823	М	82K OHM	J	1/10W	R840	ERQ1CKPR39S	F	0.39 OHM	I K	1 W
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R714	ERJ6ENF1541	М	1.54K OHM	F	1/10W	R842	ERQ12HJ1R2	F	1.2 OHM	l J	1/2W
R715	EROS2CKF5620	м	562 OHM	F	1/4W	R843	ERQ12AJR12HK	F	0.12 OHM	J	1/2W
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R720	ERJ6GEYJ104	M	100K OHM	Ų	1/10W	R846	ERJ12YJ471	М	470 OHM	l J	1/2W
R741	ERJ6ENF1002	М	10K OHM	F	1/10W	R847	ERJ12YJ122	М	1.2K OHM	J	1/2W
R742	ERJ8ENF1692	М	16.9K OHM	F	1/8W	R848	ERJ6GEYJ103	М	10K DHM	ıJ	1/10W
		1						1			1/10W
	ERJ6ENF 1001	M	1K OHM	F	1/10W	R849	ERJ6GEYJ103	М	10K DHM		
R752	ERJ6ENF2553	M	255 K OHM	F	1/10W	R850	ERJ12YU103	М	10K DHM	l J	1/2W
R753	ERJ6ENF1001	М	1K OHM	F	1/10W	R851	ERJ6GEYJ102	М	1K OHM	l J	1/10W
	ERJ6ENF2553	М	255K OHM	F	1/10W	R852	ERJ6GEYJ103	М	10K OHM		1/10W
											. /
R767	ERJ6GEYJ392	М	3.9K OHM	J	1/10W	R853	ERJ8GCYJ473	М	47K OHM		1/8W
	ERJ6GEYJ222	М	2.2K OHM	Ú	1/10W		ERX3FJX2R2D	М	2.2 OHM		3W
R773	ERJ6ENF3922	М	39.2K OHM	F	1/10W	R855	ERJ6ENF3401	М	3.4K OHM	F	1/10W
	ERJ6GEYJ332	М	3.3K OHM	Ú	1/10W	R856	ERJ6GEYJ333	М	33K OHM	J	1/10W
				_		1 1		М			1/2W
R775	ERQ14AJ100	F	10 OHM	J	1/4W	R858	ERJ12YJ222	IVI	2.2K OHM	U	1/∠W
R777	ERJ6GEYJ103	М	10K DHM	J	1/10W	R859	ERJ12YJ222	м	2.2K OHM	J	1/2W
	ERJ8GCYJ682	М	6.8K DHM	Ũ	1/8W	R860	ERJ6GEYJ103	М	10K OHM	J	1/10W
		[.			1/10W			F	0.47 OHM		1/4W
	ERJ6ENF2941	М	2.94K OHM	F	- · · · · · · · · · · · · · · · · · · ·		TAR18BKOR47Z	ľ			•
R789	ERJ6GEYJ392	M	3.9K OHM	J	1/10W	R862	ERJ6ENF 1002	М	10K OHM	F	1/10W
	ERJ6GEYJ682	М	6.8K OHM	J	1/10W	R863	ERJ6GEYJ101	М	100 OHM	J	1/10W
_											
:	ERJ6GEYJ102	M	1K OHM	J	1/10W	l I	ERJ6GEYJ683	M	68K OHM		1/10W
R801	ERC12AGK394	S	390K OHM	K	1/2W	R865	ERDS1FJ224	С	220K OHM		1/2W
1	ERJ6GEYJ273	M	27K OHM	J	1/10W	R866	ERQ12HJ271	F	270 OHM	J	1/2W
		М	2.2K OHM	Ũ	1/10W	R867	ERJ6ENF3741	м	3.74K OHM		1/10W
1	ERJ6GEYJ222	1 .				R868		М	6.65K OHM		1/10W
R805	ERJ6GEYJ222	М	2.2K OHM	J	1/10W	R868	ERJ6ENF6651	IVI	6.63K UNIV	г	17 10W
R806	ERJ6GEYJ102	м	1K OHM	J	1/10W	R869	ERJ6ENF4221	М	4.22K OHM	F	1/10W
	ERJ8GCYJ562	М	5.6K OHM	Ū	1/8W	I I	ERJ6GEYJ103	М	10K OHM		1/10W
	l .	Γ.									
R808	ERJ6GEYJ471	М	470 OH M	J	1/10W	I I	ERJ6GEYJ103	М	10K OHM		1/10W
R809	ERJ12YJ473	М	47K OHM	J	1/2W	R872	ERJ6GEYJ103	М	10K DHM	J	1/10W
	ERJ6GEYJ391	М	390 OHM	j	1/10W	R873	ERJ6GEYJ222	М	2.2K OHM	J	1/10W
											. ,
R811	ERDS1FJ224	С	220K DHM	J	1/2W	R874	ERJ6GEYJ392	М	3.9K OHM	J	1/10W
1	ERDS1FJ274	c	270K DHM	Ũ	1/2W	1	ERJ6GEYJ104	М	100K DHM		1/10W
l.			-		1/2W 1/10W	t I	1	М	511 OHM		1/10W
	ERJ6GEYJ152	Μ	1.5K OHM	Ų		1	ERJ6ENF5110	Ι.			
R814	ERJ6GEYJ151	М	150 DHM	J	1/10W	R877	ERJ6GEYJ562	М	5.6K DHM		1/10W
	ERJ6GEYJ681	М	680 DHM	J	1/10W	R878	ERJ6GEYJ823	М	82K DHM	J	1/10W
D040	ED ICENESO44	n.e	3 O4K OHM	E	1/10W	R879	ERG1SJ683	м	68K OHM	J	1 W
_	ERJ6ENF3011	Μ	3.01K OHM	F				1			
R817	ERQ12AJ6R8	ļΕ	6.8 OHM	J	1/2W	1 1	ERJ6ENF1211	М	1.21K OHM		1/10W
R818	ERJ6GEYOROO	M	OOHM		1/10W	R881	ERJ6ENF2211	M	2.21K OHM	F	1/10W
	ERDS2TJ224	C	220K OHM	J	1/4W	1	ERDS2TJ102	C	1K OHM	J	1/4W
	ERDS2TJ224	C	220K OHM	J	1/4W		ERQ12HJ391	F	390 OHM		1/2W
											. / . =
R821	TARRS3B333J2	М	33K OHM	J	3.M	I I	-	М	100K DHM		1/10W
	ERJ6GEYJ182	М	1.8K OHM	J	1/10W	R885	ERQ14AJ101	F	100 DHM	J	1/4W
	ERJ6GEYJ102	М	1K OHM	ŭ	1/10W		ERQ14AJ101	F	100 DHM		1/4W
		1.		-		F		1	22 OHM		1/2W
	ERJ8GCYJ681	М	680 DHM	U	1/8W	1	ERJ12YJ220	М			
R825	ERJ6GEYJ821	М	820 OHM	ل	1/10W	R888	ERJ6GEYJ104	М	100K DHM	J	1/10W
R826	ED ISCEVITOR	M	100 OHM	J	1/10W	R889	ERJ6GEYJ822	м	8.2K OHM	ن	1/10W
	ERJ6GEYJ101						ERX3FJX1R6D	М	1.6 DHM		3W
	ERJ6ENF2431	М	2.43K OHM	F	1/10W		1	f .		Ü	. w
R828	ERJ12YJ223	М	22K OHM	J	1/2W				SISTOR		
R829	ERJ6GEYJ102	М	1K OHM	J	1/10W	R892	ERDS1FJ470	С	47 OHM	J	1/2W
	ERJ6GEYJ332	M	3.3K OHM	J	1/10W		ERDS1FJ221	С	220 OHM	J	1/2W
									0		4 / 4 0
	ERJ6GEYJ473	Μ	47K OHM	J	1/10W	1		М	39 OHM		1/10W
	ERJ6GEYJ103	М	10K DHM	J	1/10W			М	1K OHM		1/10W
	ERJ6GEYJ102	М	1K OHM	J	1/10W	R896	ERJ12YJ102	М	1K OHM	J	1/2W
	,	w	0.12 DHM	ĸ	2W		ERJ12YJ104	М	100K DHM		1/2W
	ERW2PKR12	1						М	100K DHM		1/2W
R835	ERDS1FJ224	C	220K DHM	J	1/2W	R898	ERJ12YJ104	["	TOOK OF IN	U	1 / Z W
	ERG2\$J223	M	22K OHM	ن	2W	R899	ERJ12YJ104	М	100K DHM	J	1/2W
R836											

Ref.No.	Part No.		Des	cripti	on		Ref.No.	Part No.		Descri		
R902	ERJ6GEYJ682	M	6.8K DH	V J	1 1	/10W	1	ERJ6GEYJ222	М	2.2K OHM	J	1/10W
R903	ERDS2TJ562	С	5.6K OH	VI J		1/4W	R1030	ERJ6GEYJ154	М	150K OHM	J	1/10W
R908	ERJ6GEYJ102	M	1K OH	VI J	ا ا	/10W	R1031	ERDS2TCO	С	O OHM		1/4W
	ERJ6GEYJ101	М	100 DH	ИJ	1 1	/10W	R1040	ERJ6ENF1101	М	1.1K OHM	F	1/10W
	ERJ6GEYJ103	М	10K DH			/10W	R1041	ERJ6ENF2371	М	2.37K OHM	F	1/10W
0000	ED 100EV 1103	M	10K DH	VI J	1 1	/10W	R1042	ERJ6ENF6810	М	681 OHM	F	1/10W
	ERJ6GEYJ103					/10W		ERJ6ENF9531	М	9.53K OHM	F	1/10W
	ERJ6GEYJ101	М	100 OH				1 1		М	3.24K OHM	F	1/10W
	ERJ6GEYJ101	M	100 DH			/10W	1 1	ERJ6ENF3241	Ι.			
R937	ERJ6GEYJ102	M	1K OH	VI J		/10W	R1045	ERJ6ENF1501	М	1.5K OHM	F	1/10W
R938	ERJ6GEYJ102	M	1K OH	VI J	1 1	/10W	R1046	ERJ6GEYJ101	М	100 OHM	J	1/10W
R939	ERJ6GEYJ102	М	1K OH	VI J	J 1	/10W	R1047	ERJ6GEYJ101	м	100 DHM	J	1/10W
	ERJ6GEYJ223	М	22K OH			/10W	R1050	EROS2CKF84R5	М	84.5 OHM	F	1/4W
_	ERJ6GEYJ223	М	22K DH			/10W	R1051	ERJ6GEYJ820	М	82 OHM	J	1/10W
	1	1.					R1055	ERJ6GEYJ222	М	2.2K OHM	Ũ	1/10W
	ERJ6GEYJ103 ERJ6GEYJ103	M	10K DH			/10W /10W	R1056	ERJ6GEYJ472	М	4.7K OHM	Ĵ	1/10W
K344	EKUGGETUTUS	"	TOR OIL	., •				2,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			_	
	ERJ6GEYJ103	М	10K DH			/10W	R1058	ERJ6GEYJ152	M	1.5K OHM	J	1/10W
R946	ERJ8GCYJ271	М	270 DH			1/8W	1 1	ERDS2TJ330	С	33 OHM	J	1/4W
	ERJ6GEYJ751	M	750 OH	M J		/10W	R1060		М	84.5 OHM	F	1/4W
	ERJ6GEYJ223	М	22K OH			/10W	R1061	ERJ6GEYJ820	М	82 OHM	J	1/10W
	ERJ6GEYJ223	М	22K OH			/10W	R1065	ERJ6GEYJ222	М	2.2K OHM	Ú	1/10W
R950	EKUNGETUZZ3	"	22N UM	·1 U	, 1	, 10W		LINGUAL FUZZZ	["	2.21 01111	•	·
	ERJ6GEYJ223	М	22K OH			/10W	1 1	ERJ6GEYJ472	М	4.7K OHM	Ų	1/10W
R952	ERJ6GEYJ223	M	22K OH	M J		/10W		ERDS2TJ224	C	220K OHM	ن	1/4W
	ERJ6GEYJ103	М	1 OK OH	M J	J 1	/10W	R1076	ERJ6GEYJ103	М	10K DHM	J	1/10W
	ERJ6GEYJ103	м	10K DH			/10W	R1077	ERJ6GEYJ102	М	1K OHM	J	1/10W
	ERJ6GEYJ103	М	10K DH			/10W	R1080	ERJ6ENF1202	М	12K OHM	F	1/10W
			00014 000			/409/	04004	ED.IGENEOOEO	M	20.5K OHM	F	1/10
	ERJ6GEYJ334	M	330K DH			/10W /10W		ERJ6ENF2052 ERJ6ENF1002	M	10K DHM	F	1/10%
	ERJ6GEYJ334	М	330K DH						1	27K OHM	F	1/10%
	ERJ6GEYJ334	M	330K DH			/10W		ERJ6ENF2702	М			
R973	ERDS2TJ103	C	10K 0H	M J	J	1/4W		ERJ6GEYJ101	М	100 DHM	J	1/10W
	ERDS2TJ103	c	10K DH	M J	j	1/4W	R1106	ERJ6GEYJ220	М	22 OHM	J	1/104
R975	ERDS2TJ103	С	10K DH	M J	}	1/4W	R1109	ERJ6ENF7870	М	787 OHM	F	1/10
	ERJ6GEYJ223	М	22K OH			/10W		ERJ6ENF5600	М	560 OHM	F	1/10W
		М	3.9K OH			/10W		ERJ6ENF39R0	М	39 OHM	F	1/10W
	ERJ6GEYJ392					/10W	1 1	EROS2CKF4702	М	47K OHM	F	1/4
	ERJ6GEYJ392	М	3.9K OH			• .			1.		F	1/4W
R981	ERJ6GEYJ333	М	33K OH	M J	, 1	/10W	R1114	EROS2CKF3091	М	3.09K OHM	Г	1 / 4 W
R982	ERJ6GEYJ101	М	100 DH	M J	J 1	/10W	R1116	ERJ6ENF8200	М	820 OHM	F	1/10%
	ERJ6GEYJ101	М	100 DH	M J	J 1	/10W	R1118	ERJ8GCYJ331	М	330 DHM	J	1/8₩
	ERJ6GEYJ101	М	100 DH			/10W		ERG2SJ123	М	12K OHM	J	2W
	ERJ6GEYJ101	M	100 DH			/10W	1	ERJ6ENF1002	M	10K OHM	F	1/10W
	ERJ6GEYJ101	M	100 DH			/10W	1 1	ERJ6ENF 1002	М	10K OHM	F	1/10
	2.003210101	[.00 011									
	ERJ6ENF 1001	М	1K OH			/10W	1 1 1 1	ERDS1FJ220	C	22 OHM	J	1/2V 1/4V
	ERJ6ENF2553	М	255K OH			/10W		ERDS2TJ102	С	1K OHM	J	
R999	ERJ6GEYJ103	М	10K DH			/10W		ERJ6GEYJ123	М	12K OHM	J	1/10
R1004	ERJ6GEYJ101	М	100 DH	M J	J 1	/10W	R1125	ERJ6ENF1202	М	12K OHM	F	1/10%
	ERJ6GEYJ220	М	22 OH	M J	J 1	/10W	R1126	EROS2CKF2262	М	22.6K OHM	F	1/4
24.000	ED IGENEZOZO	м	787 OH	M F		/10W	R1127	ERJ6ENF1002	м	10K DHM	F	1/10V
	ERJ6ENF7870	1					I I		М	768 OHM	F	1/10
	ERJ6ENF5600	М	560 DH			/10W		ERJ6ENF7680	1			1/10
	ERJ6ENF39RO	М	39 DH			/10W	F	ERJ6GEYJ222	M	2.2K OHM	J	
	EROS2CKF4702	М	47K OH			1/4W	I I		М	150K OHM	Ų	1/10
	EROS2CKF3091	M	3.09K DH	M F	•	1/4W	R1131	ERDS2TJ101	С	100 DHM	J	1/4W
R1016	ERJ6ENF8200	M	820 OH	M F	: 4	/10W	R1140	ERJ6ENF1101	м	1.1K OHM	F	1/10%
	ERUSENF8200 ERUSGCYJ331	М	330 DH			1/8W	1 1 1 1 1 1 1	ERJ6ENF2371	М	2.37K OHM	F	1/10W
		M	12K OH			2W	1	1	М	681 OHM	F	1/10
	ERG2SJ123						1 1	ERJ6ENF9531	м	9.53K OHM	F	1/10
_	ERJ6ENF 1002 ERJ6ENF 1002	M	10K 0H 10K 0H			/10W /10W	1	ERJ6ENF3241	M	3.24K OHM	F	1/10%
	1002	[1010									
	ERDS1FJ220	С	22 OH			1/2W	1 1	ERJ6ENF1501	M	1.5K OHM	F	1/10V 1/10V
_	ERDS2TJ102	C	1K OH			1/4W	1 1	ERJ6GEYJ101	М	100 DHM	J	
R1024	ERJ6GEYJ123	M	12K OH	M U		/10W	1 :	ERJ6GEYJ101	М	100 DHM	J	1/10W
	ERJ6ENF1202	M	12K OH	M F	: 1	/10W	R1150	EROS2CKF84R5	М	84.5 OHM	F	1/4W
			22.6K OH			1/4W	R1151	ERJ6GEYJ820	М	82 OHM	J	1/10W
	EROS2CKF2262	1.	22.01	,			1 1 1 1 1 1					
R1026	ERJ6ENF1002	M	10K 0H			/10W	İ	ERJ6GEYJ222	М	2.2K OHM	U	1/10%

Ref.No.	Part No.		Descr	iptio		Ref.No.			Descri	<u> </u>	
R1158	ERJ6GEYJ152	M 1.	5K OHM	J	1/10W	1	ERJ6GEYJ102	М	1K OHM	Ú	1/10W
R1159	ERDS2TJ330	c	33 OHM	J	1/4W	R1303	ERJ6GEYJ152	М	1.5K OHM	J	1/10W
	EROS2CKF84R5	M 84	.5 OHM	F	1/4W	R1304	ERDS2TJ102	С	1K OHM	J	1/4W
	ERJ6GEYJ820	M	82 OHM	Ú	1/10W	R1305	ERJ6ENF1002	м	10K DHM	F	1/10W
	ERJ6GEYJ222	I .	2K OHM	J	1/10W	R1306	ERJ6ENF1002	М	10K DHM	F	1/10W
D1166	ED ICCEV 1470	na 4	7K OHM	J	1/10W	R1307	ERJ6GEYJ151	м	150 OHM	J	1/10W
1	ERJ6GEYJ472				1/4W	R1308	ERJ6GEYJ102	М	1K OHM	Ű	1/10W
	ERDS2TJ122	1-	2K OHM	J		1 1					1/10W
P 1 1 1 1 -	ERDS2TJ224	1	OK OHM	J	1/4W		ERJ6GEYJ102	М	1K OHM	J	
R1176	ERJ6GEYJ103	M 1	OK OHM	J	1/10W	R1313	ERJ6GEYJ102	М	1K OHM	J	1/10W
R1177	ERJ6GEYJ102	М	1K OHM	J	1/10W	R1314	ERJ6GEYJ331	М	330 OHM	J	1/10W
R1180	EROS2CKF1202	M 1	2K OHM	F	1/4W	R1315	ERJ6GEYJ474	М	470K OHM	J	1/10W
R1181	ERJ6ENF2052	M 20.	5K OHM	F	1/10W	R1316	ERJ6GEYJ222	М	2.2K OHM	J	1/10W
1	ERJ6ENF1002	M 1	OK OHM	F	1/10W	R1317	ERJ6GEYJ912	М	9.1K OHM	J	1/10W
	ERJ6ENF2702		7K OHM	F	1/10W	R1318	ERJ6GEYJ682	м	6.8K OHM	J	1/10W
1	ERUGENF2702 ERUGEYJ101		MHO OO	J	1/10W	R1320	ERJ6ENF2701	М	2.7K OHM	F	1/10W
		L.	00 01104		4 /4 054	D. 4.000	ED ICCENTION		10 OHM	.1	1/10W
1	ERJ6GEYJ220	M	22 OHM	J	1/10W		ERJ6GEYJ100	M	10 OHM	J	
	ERJ6ENF7870	I .	87 OHM	F	1/10W		ERJ6GEYJ103	М	10K DHM	J	1/10W
R1210	ERJ6ENF5600	M 5	60 OHM	F	1/10W	R1325	ERJ6GEYJ223	М	22K OHM	Ų	1/10W
R1211	ERJ6ENF47RO	М	47 OHM	F	1/10W	R1326	ERJ6GEYJ223	M	22K OHM	J	1/10W
	EROS2CKF4702	I .	7K OHM	F	1/4W	R1327	ERJ6GEYJ103	М	10K OHM	J	1/10W
R1214	EROS2CKF3091	м з.о	9K OHM	F	1/4W	R1328	ERJ6GEYJ102	м	1K OHM	J	1/10W
I .	f .					R1329	ERJ6GEYJ102	м	1K OHM	J	1/10W
_	ERJ6ENF8200		20 OHM	F	1/10W	4					
	ERJ8GCYJ331	1	30 OHW	J	1/8W	R1331	ERJ6ENF1962	М	19.6K OHM	F	1/10W
R1219	ERG2SJ123	M 1	2K OHM	J	2W	R1332	ERJ6ENF1002	М	10K OHM	F	1/10W
	ERJ6ENF1002	M 1	ок онм	F	1/10W	R1333	ERJ12YJ681	M	680 OHM	J	1/2W
R1221	ERJ6ENF1002	M 1	ок онм	F	1/10W	R1336	ERJ6GEYJ222	М	2.2K OHM	J	1/10W
	ERDS1FJ220	c '	22 OHM	Ü	1/2W	R1337	ERJ6GEYJ102	М	1K OHM	Ū	1/10W
					1/4W	R1338	ERJ6GEYJ561	м	560 DHM	Ĵ	1/10W
	ERDS2TJ102	C .	1K OHM	J.		1 1		1 .			
R1224	ERJ6GEYJ123		2K OHM	J	1/10W	R1339	ERJ6GEYJ102	М	1K OHM	J	1/10W
R1225	ERJ6ENF1202	M 1	2K OHM	F	1/10W	R1340	ERJ12YJ681	М	680 DHM	J	1/2W
R1226	EROS2CKF2262	M 22.	6К ОНМ	F	1/4W	R1341	ERJ12YJ681	м	680 OHM	J	1/2W
R1227	ERJ6ENF1002	1	OK OHM	F	1/10W	R1342	ERJ6GEYJ220	М	22 OHM	J	1/10W
R1228	ERJ6ENF7680	F .	68 OHM	F	1/10W	R1381	ERJ6GEYJ682	М	6.8K OHM	J	1/10W
1			-	-		R1385	ERJ6GEYJ474	М	470K OHM	Ŭ	1/10W
R1229	ERJ6GEYJ222		2K OHM	J	1/10W			Γ.	-		1/2W
R1230	ERJ6GEYJ154	M 15	ок онм	J	1/10W	R1390	ERDS1FJ561	С	560 OHM	J	1/ Z W
R1231	ERDS2TCO	c	O OHM		1/4W	R1391	ERJ6GEYJ682	М	6.8K OHM	J	1/10W
	ERJ6ENF1101		1K OHM	F	1/10W	R1392	ERG1SJ123	М	12K OHM	J	1 W
_	1		7K OHM	F	1/10W	R1395	ERJ6GEYJ474	м	470K OHM	Ŭ	1/10W
	ERJ6ENF2371					1		M		J	1/10W
	ERJ6ENF6810 ERJ6ENF9531		81 OHM	F F	1/10W 1/10W	R1396 R1401	ERJ6GEYJ222 ERJ6GEYJ331	M	2.2K OHM 330 OHM	J	1/10W
1243	LKOOLNE 3331			•						-	·
R1244	ERJ6ENF3241	M 3.2	4K OHM	F	1/10W		ERJ6ENF2702	М	27K OHM	F	1/10W
1	ERJ6ENF1501	M 1.	5K OHM	F	1/10W	R1403	ERJ6ENF3301	М	3.3K OHM	F	1/10W
	ERJ6GEYJ101		OO DHM	Ú	1/10W		ERJ6ENF2212	М	22.1K OHM	F	1/10W
	ERUGGEYU101		OO DHM	Ĵ	1/10W	1 (ERJ6ENF5621	М	5.62K OHM	F	1/10W
		1	.5 OHM	F	1/4W	1	ERJ6ENF8203	м	820K OHM	F	1/10W
D 1 0 5 1	ED 10057 :000	L.	90 O		1/104	D1400	ERJ6ENF1002	м	10K OHM	F	1/10W
	ERJ6GEYJ820		82 OHM	J	1/10W						
1	ERJ6GEYJ222	1	2K OHM	J	1/10W	1 1	ERJ6ENF1002	М	10K OHM	F.	1/10W
R1256	ERJ6GEYJ472	M 4.	7K OHM	J	1/10W	1	ERJ6GEYJ124	М	120K OHM	J	1/10W
R1258	ERJ6GEYJ152	M 1.	5K OHM	J	1/10W	Z1051A	ERJ6GEYOROO	M	O OHM		1/10W
l	ERDS2TJ330	c	33 OHM	J	1/4W	Z1061A	ERJ6GEYOROO	M	O OHM		1/10W
R1260	EROS2CKF84R5	M 84	.5 OHM	F	1/4W	Z1151A	ERJ6GEYOROO	м	о онм		1/10W
	ERJ6GEYJ820	1	82 OHM	່ປ	1/10W		ERJ6GEYOROO	М	O OHM		1/10W
		i		J	1/10W		ERJ6GEYOROO	м	O DHM		1/10W
	ERJ6GEYJ222	1	2K OHM	_		1 1		ſ			1/10W
1	ERJ6GEYJ472 ERD25FJ224K		7K OHM	ل ل	1/10W 1/4W		ERJ6GEYOROO ERD25TCO	M	O DHM O DHM		1/10W
	LINDZOI OZZAR							-			
	ERJ6GEYJ103	1	OK OHM	J	1/10W	Z502	ERD25TCO	С	O OHM		1/4W
	ERJ6GEYJ102 ERJ6ENF1202	,	1K OHM 2K OHM	J F	1/10W 1/10W		OTHERS				
		1					JITIERS				
	ERJ6ENF2052	1	5K OHM	F	1/10W		TESO140 0	5.	DINC(CDT DO	D F	ADTH)
R1282	ERJ6ENF1002	M 1	OK OHM	F	1/10W		TES9148-2	- 1	RING(CRT PC	ם ב	AKITI
					,		TES9511		D SPRING		
R1283	ERJ6ENF2702	M 2	7K OHM	F	1/10W		THE902N	D -	SUB SCREW		
			7K OHM	J	1/10W	: 1	TJ\$8A4830	in a	IC TERMINAL		

	Ref.No.	Part No.	Description		Ref.No		Description
		TJ\$8A9600	15P CONNECTOR(D-SUB)	Δ		TLP750D4	PHOTO COUPLER
		TMK87907	MICA SHEET	Δ		S21ME4FY	PHOTO COUPLER
		TMK87919	INSULATION SHEET		RL571 S290	TSE80892	RELAY SPARK GAP
		TMM16452	CLAMPER(LONG)		1	TAG10003 TAGDSP751N	SPARK GAP
		TMM7464	CLAMPER(SHORT)		S301	I AGDSP / 5 IN	SPARK GAP
		TUC87559-1	AC INLET BRACKET	ľ	S302	TAGDSP751N	SPARK GAP
		TUC87577	SHIELD PLATE(VIDEO PCB)		S691	TAGDSP201MF	SPARK GAP
		TUW85513	BNC TERMINAL BRACKET		S1001	TAGDSP201MF	SPARK GAP
		TUX86406	FBT BRACKET		S1101	TAGDSP201MF	SPARK GAP
		XTV3+12J	SCREW		S1201	TAGDSP201MF	SPARK GAP
		XTV3+16J	SCREW	Δ	SW801	ESB8278V	SWITCH(POWER)
		XWGT40660	WASHER			EVQ33405R	SWITCH
		XWG3F10	WASHER			EVQ33405R	SWITCH
		TMM85541	CLAMPER(SMALL)			EVQ33405R	SWITCH SWITCH
Δ	F801	XBA2C50TB15L	FUSE(S.OA)		5W904	EVQ33405R	SWITCH
	FC 2	TJC85341	EARTH LUG		TP1	TEL302-9	TERMINAL
		TJC85341	EARTH LUG	l	TP2	TEL302-9	TERMINAL
		TJC85341	EARTH LUG		TP301	TEL302-9	TERMINAL
		TJE85317	LUG TERMINAL		X901	TSS2165TM	CRYSTAL OSCILLATOR
		TJC85502T	FUSE HOLDER				
	FS803	TJC85502T	FUSE HOLDER		1		
	JC101	TJC85341	EARTH LUG				
		TJC85341	EARTH LUG				
		TJS9A8291	11P CONNECTOR(L-TYPE)				
	N7B	TJS9A8290	11P CONNECTOR				
		- 1001000	OD COMMISSION (1 TYPE)				
		TJS9A8260	9P CONNECTOR(L-TYPE) 9P CONNECTOR				
		TJS9A8250 TJS9A8220	24P CONNECTOR				
		TJS9A8210	24P CONNECTOR(L-TYPE)	l			
		EMCSO364MB	3P CONNECTOR(BLUE)				
	INTOA	1003030400					
	N10B	EMCSO364MB	3P CONNECTOR(BLUE)				
		TJS9A8090	25P CONNECTOR				
		TJ\$9A8090	25P CONNECTOR				
	N15A	TJS9A848A	7P CONNECTOR				
	N15B	TJ\$9A849A	7P CONNECTOR(L-TYPE)				
		EMCSO364M	3P CONNECTOR			}	
		EMCSO351ML	3P CONNECTOR(L-TYPE)				
		TJ\$9A863A	2P CONNECTOR				
	_	TJC85342T TJC85342T	LUG TERMINAL				
	N105	100853421	LOG TERMINAL	ŀ			
	N106	TJC85342T	LUG TERMINAL				
		TJS8A5130	CRT SOCKET				
		TEL302-9	TERMINAL				
	N382B	TEL302-9	TERMINAL				
	N511B	TJS3A8010	3P CONNECTOR				
				1			
		TJS9A9760	AC INLET				
		TJS8A8570	3P CONNECTOR	1			
		TJS8A8570	3P CONNECTOR				
		TJS9A846A	8P CONNECTOR 8P CONNECTOR(L-TYPE)				
	14201B	TJS9A847A	OF CONNECTOR(L TIPE)				
	N9010	EMCSO464M	4P CONNECTOR				
		TEL302-9	TERMINAL				
		TEL302-9	TERMINAL				
		TEL302-9	TERMINAL				
	N510-4	TEL302-9	TERMINAL				
		TEL302-9	TERMINAL				
		TEL302-9	TERMINAL				}
		TEL302-9	TERMINAL TERMINAL				
		TEL302-9 TEL302-9	TERMINAL				
	11002-2	166302-9	LENGTIME				
Λ	PC830	TLP721FD4GRH	PHOTO COUPLER				
		TLP721FD4GR	PHOTO COUPLER				